CMT-EP505

SERVICE MANUAL

Ver 1.1 2002.04

US Model
Canadian Model
AEP Model
UK Model
E Model
Chinese Model

- CMT-EP505 is composed of following models.
  As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	CMT-EP505
COMPACT DISC DECK RECEIVER SYSTEM	HCD-EP505
SPEAKER SYSTEM	SS-CEP505

SPECIFICATIONS

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Mexican model: 120 V AC, 60 Hz
Argentina model: 220 - 230 V AC, 50/60 Hz
Hong Kong model: 230 V AC, 50/60 Hz
Other models: 230 V AC, 50/60 Hz

Power con
U.S.A. model 35 W
Canadian model 35 W
European model 40 W
0.5 W (in the standby mode)
Other models: 40 W

Dimensions (w/h/d): Approx. 145 × 240 × 252 mm

Mass: Approx. 3.5 kg

Supplied accessories: AM loop antenna (1)
Remote Commander (1)
Batteries (2)
FM lead antenna (1)

Design and specifications are subject to change without notice.

ACCESSORIES

Part No.	Description	Remark
1-477-184-11	REMOTE COMMANDER (RM-SEP505)	
1-501-843-11	ANTENNA, LOOP (AM)	
1-793-184-21	CONNECTOR (F TYPE ADAPTOR)	
1-823-170-11	CORD (WITH CONNECTOR) (FM ANT) (AEP, UK, CH)	
4-235-505-01	COVER, BATTERY (for RM-SEP505)	
4-239-338-11	MANUAL, INSTRUCTION (ENGLISH) (US, CND, AEP, UK, E51, HK, AR)	
4-239-838-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
4-239-838-31	MANUAL, INSTRUCTION (SPANISH) (E51, AR)	
4-239-338-41	MANUAL, INSTRUCTION (FRENCH, SPANISH) (AEP)	
4-239-338-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, SWEDISH, POLISH) (AEP)	
4-239-338-61	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (HK)	
4-239-339-11	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)	
4-239-339-21	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
4-239-339-31	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
4-239-340-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
4-239-340-21	MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (AEP)	
4-239-340-31	MANUAL, INSTRUCTION (TURKISH) (AEP)	
4-239-340-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	
4-241-584-11	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE) (CH)	

- Abbreviation
  AR : Argentina model
  CH : Chinese model
  CND : Canadian model
  E51 : Chinese and Peruvian model
  HK : Hong Kong model

MICRO Hi-Fi COMPONENT SYSTEM

9-873-919-02
2002D0500-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

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REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.03	New
1.1	2002.04	Addition of US, Canadian, Hong Kong, Chilean and Peruvian, Argentina model

HCD-EP505

SERVICE MANUAL

Ver 1.1 2002.04

US Model
Canadian Model
AEP Model
UK Model
E Model
Chinese Model

HCD-EP505 is the amplifier, CD player, tape deck and tuner section in CMT-EP505.

CD Section	Model Name Using Similar Mechanism	HCD-EP50
	CD Mechanism Type	CS-21SC-1280
TAPE Section	Model Name Using Similar Mechanism	HCD-EP50
	Tape Transport Mechanism Type	CRL3439

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:
(US model only)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
with 8 Ω loads both channels driven, from 120 - 10,000 Hz; rates 14 W per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 mW to rated output.

Amplifier section
Canadian model:
Continuous RMS power output (reference)
14 + 14 W
(8 Ω at 1 kHz, 10% THD)
European model:
DIN power output (rated) 11 + 11 W
(8 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
14 + 14 W
(8 Ω at 1 kHz, 10% THD)
Music power output (reference)
27 + 27 W
Other models:
The following measured at AC 230 V or AC 120 V, 50/60 Hz
DIN power output (rated) 11 + 11 W
(8 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
14 + 14 W
(8 Ω at 1 kHz, 10% THD)
Outputs
PHONES: (stereo mini jack) Accepts headphones of 8 Ω or more
SPEAKER: Accepts impedance of 8 to 16 Ω

CD player section
System: Compact disc and digital audio system
Laser: Semiconductor laser (λ=780 nm)
Emission duration: continuous
Frequency response: 20 Hz - 20 kHz (±0.5 dB)

Tape player section
Recording system: 4-track 2-channel stereo
Frequency response: 50 - 13 000 Hz (±3 dB), using Sony TYPE I cassette
Wow and flutter: ±0.15% W.Peak (IEC)
0.1% W.RMS (NAB)
±0.2% W.Peak (DIN)

Tuner section
FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range: 87.5 - 108.0 MHz
Antenna: FM lead antenna
Antenna terminal: 75 coaxial
Intermediate frequency: 10.7 MHz

AM tuner section
Tuning range
Pan-American model: 530 - 1 710 kHz
(with the interval set at 10 kHz)
531 - 1 710 kHz
(with the interval set at 9 kHz)
European models: 531 -1 602 kHz
(with the interval set at 9 kHz)
Other models: 531 - 1 602 kHz
(with the interval set at 9 kHz)
530 - 1 710 kHz
(with the interval set at 10 kHz)
Antenna: Supplied AM loop antenna
Intermediate frequency: 450 kHz

General
Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Argentine model: 220 - 230 V AC, 50/60 Hz
Hong Kong model: 230 V AC, 50/60 Hz
Other models: 230 V AC, 50/60 Hz
Power consumption
US model: 35 W
Canadian model: 35 W
European models: 40 W
0.5 W (in the standby mode)
Other models: 40 W
Dimensions (w/h/d): Approx. 145 × 240× 252 mm
Mass: Approx. 3.5 kg

Supplied accessories: AM loop antenna (1)
Remote Commander (1)
Batteries (2)
FM lead antenna (1)

Design and specifications are subject to change without notice.

COMPACT DISC DECK RECEIVER

9-873-673-02
2002D0500-1
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Home Audio Company
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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

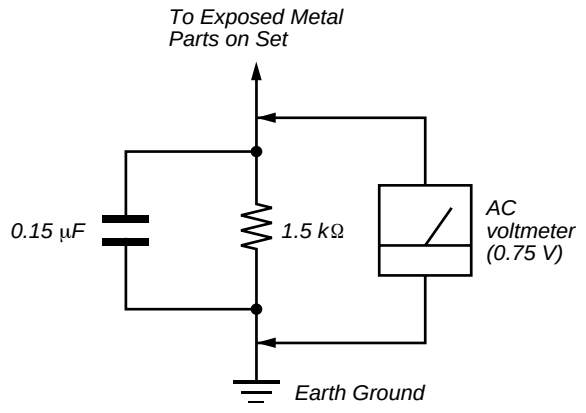

Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the bottom.

与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

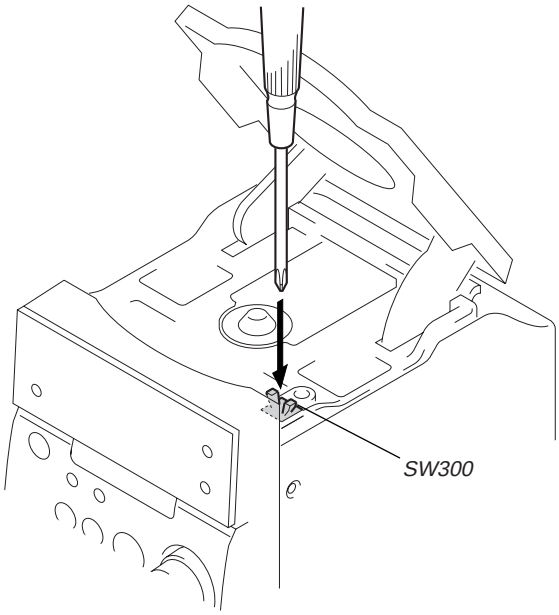
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

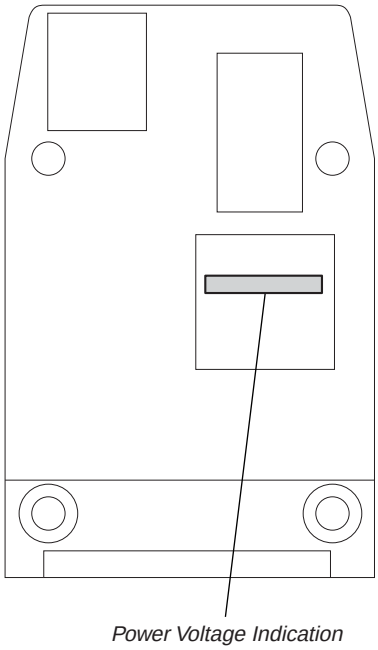
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Press the I/⏻ button to the power ON with no disc inserted and press the CD button.
2. Open the lid for CD.
3. Turn on SW300 as following figure.
4. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down five times for the focus search.



• MODEL IDENTIFICATION
– Bottom View –



Model	Power Voltage Indication
US and Canadian models	AC: 120 V 60 Hz 35 W
Argentina model	AC: 220 – 230 V ∼ 50/60 Hz 40 W
Other models	AC: 230 V ∼ 50/60 Hz 40 W

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS
– Front Panel –

Main unit

ALPHABETICAL ORDER

A – M

Cassette compartment 15
CD 4
DIR 17
DISPLAY 2
Display Window 5
ENTER 16
MEGA BASS 8
MUSIC MENU 9

P– Z

PHONES jack 18
PLAY MODE 17
PRESET +/– 13
RDS (European model only)/DIR 17
Remote sensor 10
TAPE 3
TIMER indicator 1
TUNER 6
TUNER MEM 16
TUNING +/– 11
VOLUME control 12

BUTTON DESCRIPTIONS

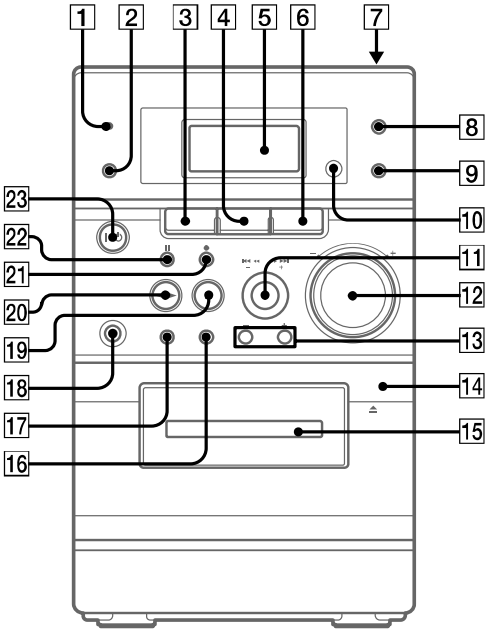
I/⏻ (power) 23

CD

⏮ ◀◀ (go back) 11
▶▶ ⏭ (go forward) 11
◀▶ (play) 20
⏸ (pause) 22
⏏ PUSH OPEN/CLOSE 7
■ (stop) 19

TAPE

▶▶ ⏭ (fast forward) 11
⏸ (pause) 22
◀▶ (play) 20
● (recording) 21
⏮ ◀◀ (rewind) 11
⏏ PUSH OPEN/CLOSE 14
■ (stop) 19



Remote control

ALPHABETICAL ORDER

A – M

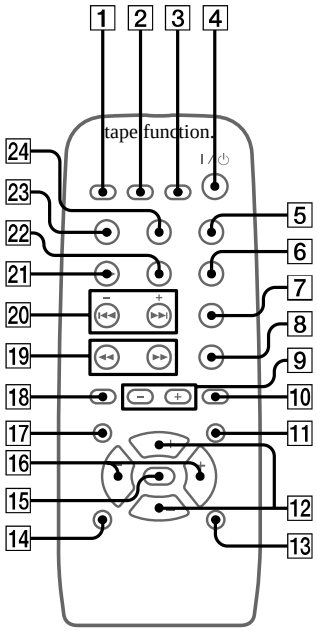
CD 24
CLOCK/TIMER +/– 20
CLOCK/TIMER ON/OFF 2
CLOCK/TIMER SET 3
DISPLAY 11
ENTER 14
MEGA BASS 13
MUSIC MENU +/– 16
MUTING 15

P – Z

PLAY MODE/RDS (European model only)/DIR 7
PRESET +/– 9
REPEAT 8
SLEEP 1
TAPE 23
TUNER/BAND 5
TUNER MEMORY 17
TUNING + 10
TUNING – 18
VOL (volume) +/– 12

BUTTON DESCRIPTIONS

◀◀ (rewind) ▶▶ (fast forward) 19
I◀◀ (go back) ▶▶I (go forward) 20
II (pause) 22
◀► (play) 21
I/⏻ (power) 4
■ (stop) 6



Setting the clock

1 Turn on the system.

2 Press CLOCK/TIMER SET on the remote.

3 Press I◀◀ or ▶▶I on the remote repeatedly to set the hour.

4 Press ENTER.

5 Press I◀◀ or ▶▶I on the remote repeatedly to set the minute.

6 Press ENTER.

The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET on the remote.

2 Press I◀◀ or ▶▶I on the remote to select "SET CLK", then press ENTER.

3 Do the same procedures as step 3 to 6 above.

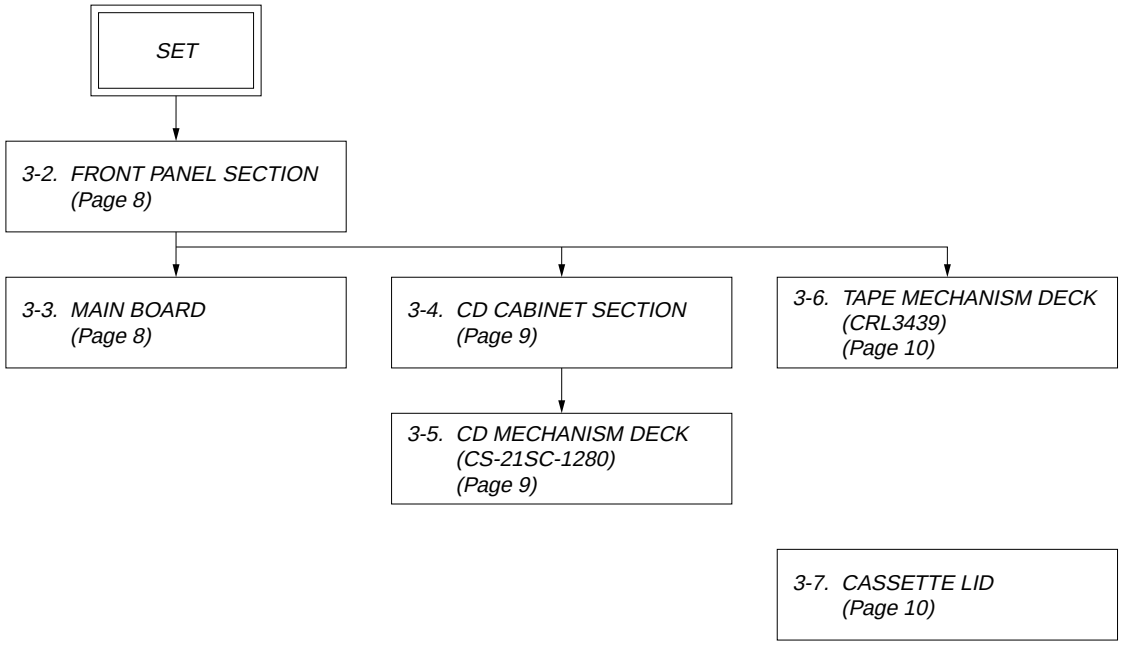
Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

SECTION 3
DISASSEMBLY

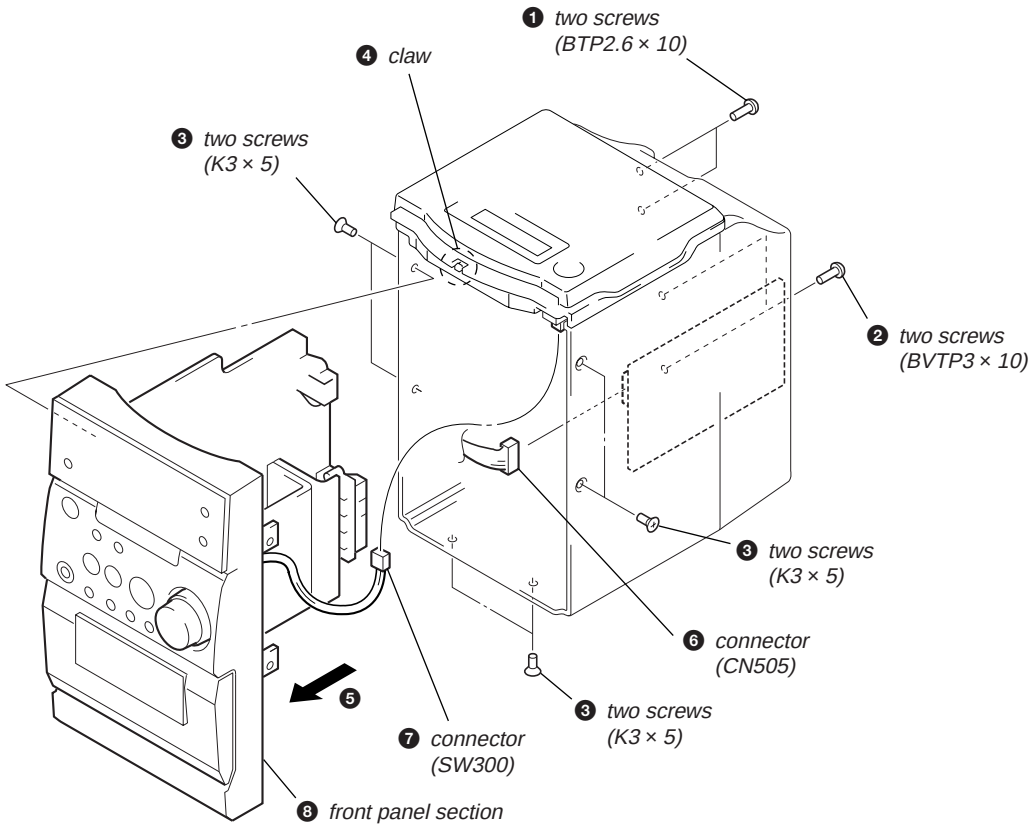
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

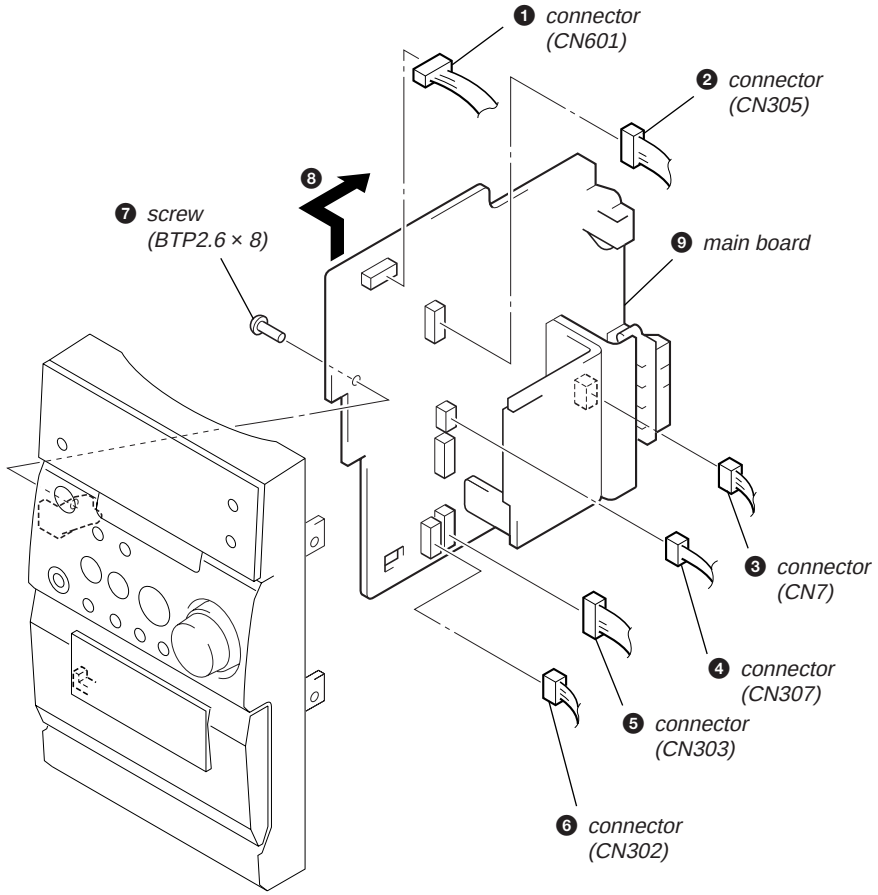


Note: Follow the disassembly procedure in the numerical order given.

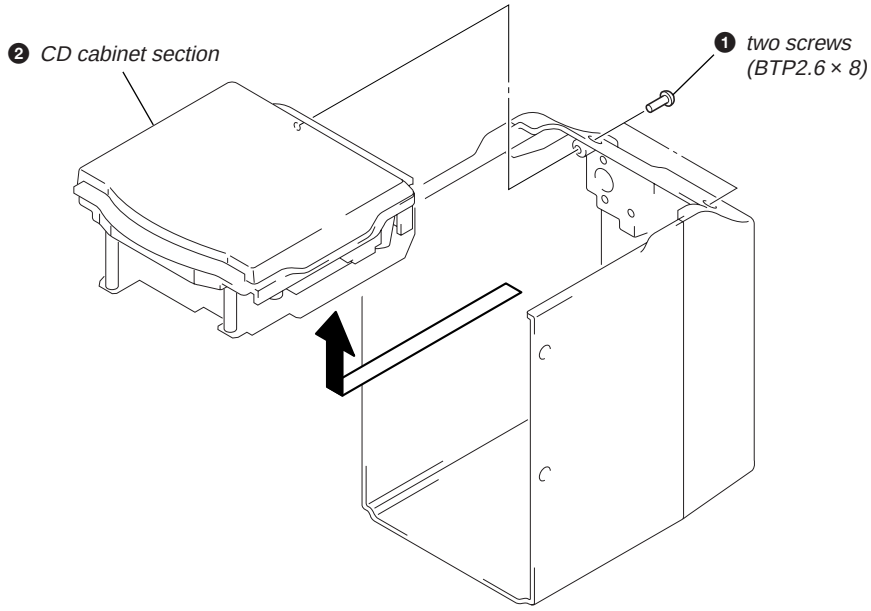
3-2. FRONT PANEL SECTION


❶ two screws (BTP2.6 × 10)
❹ claw
❸ two screws (K3 × 5)
❷ two screws (BVTP3 × 10)
❸ two screws (K3 × 5)
❻ connector (CN505)
❺
❸ two screws (K3 × 5)
❼ connector (SW300)
❽ front panel section

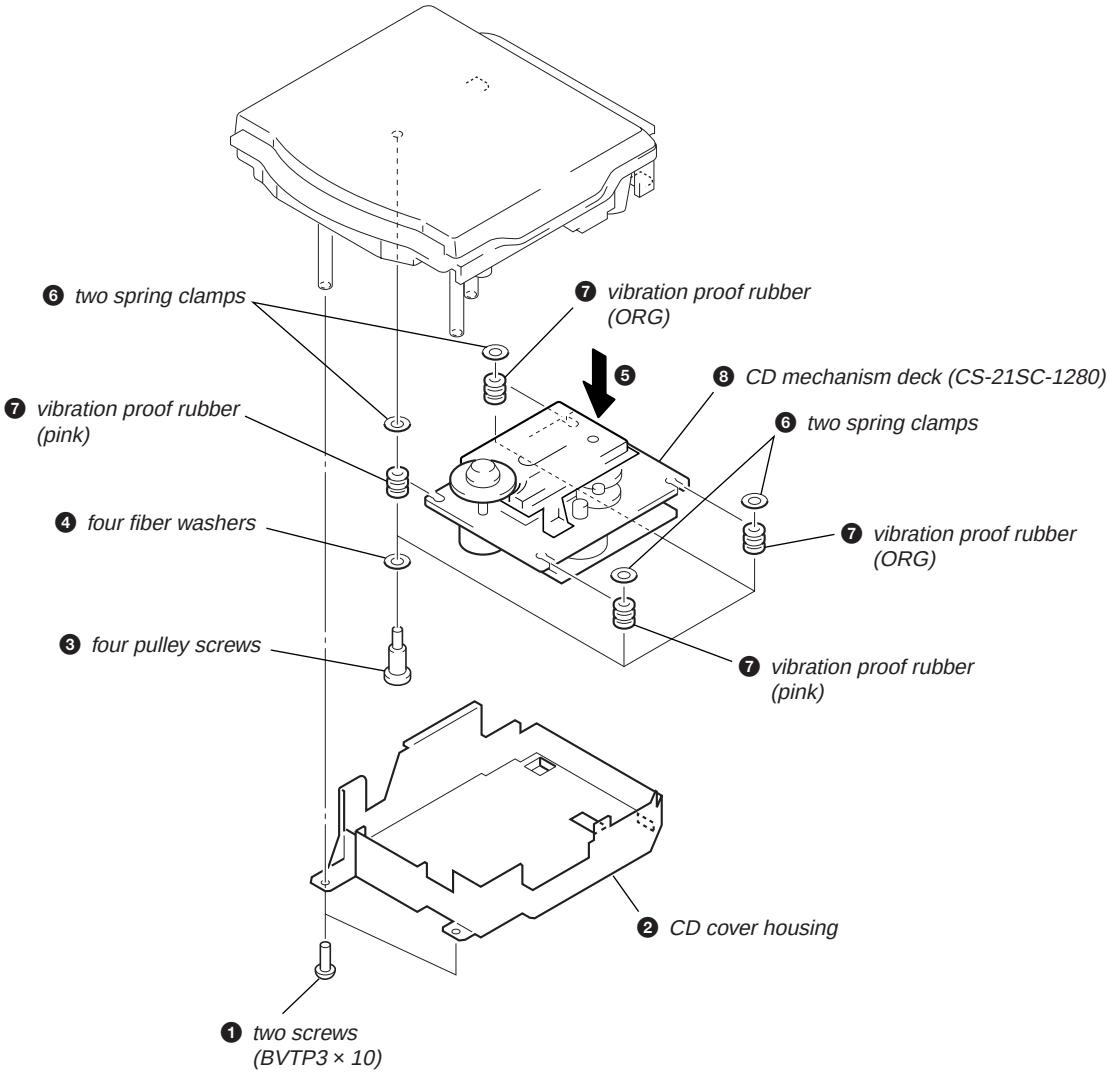
3-3. MAIN BOARD



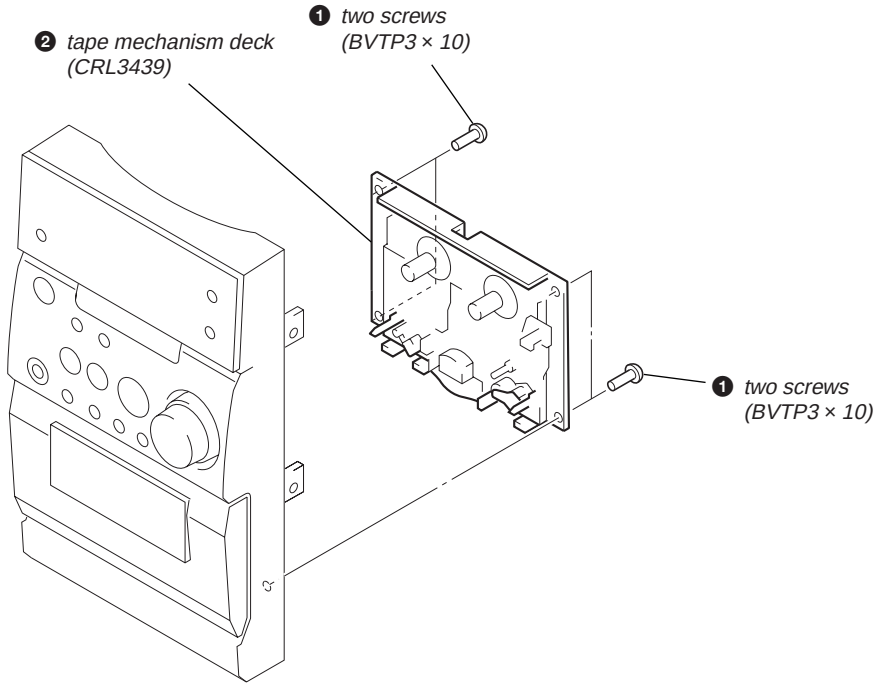
3-4. CD CABINET SECTION



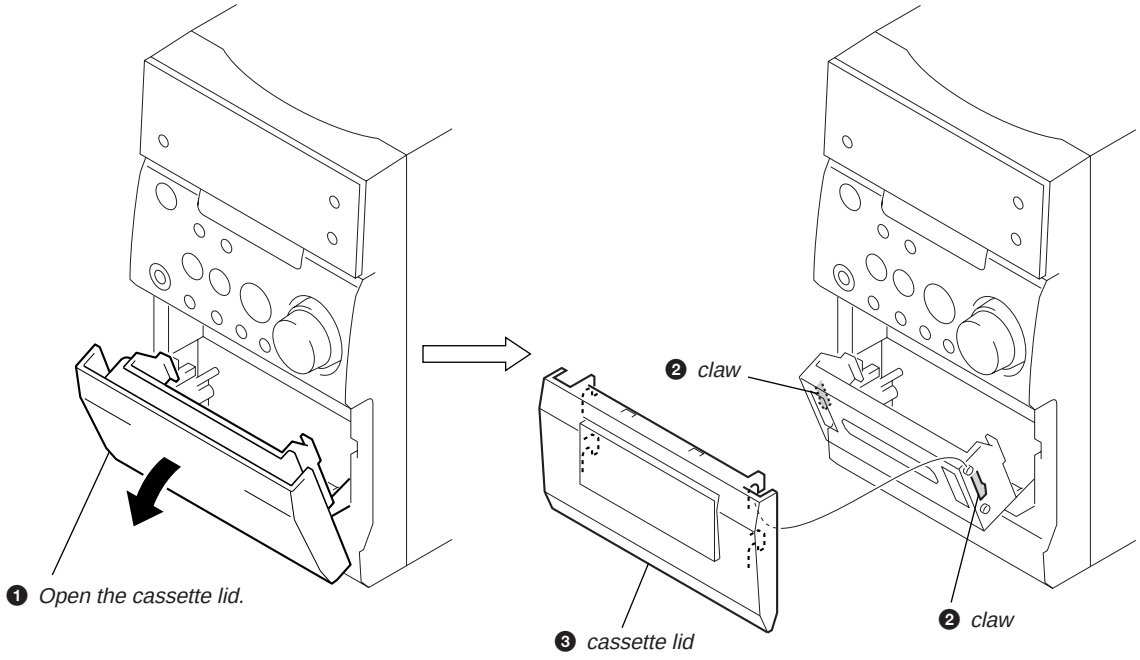
3-5. CD MECHANISM DECK (CS-21SC-1280)



3-6. TAPE MECHANISM DECK (CRL3439)



3-7. CASSETTE LID



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	2.95 – 6.86 mN•m (30 – 70 g•cm) (0.42 – 0.97 oz•inch)
FWD Back Tension	CQ-102C	0.15 – 5.39 mN•m (1.5 – 5.5 g•cm) (0.021 – 0.076 oz•inch)
FF	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)
REW	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Setting
   MEGA BASS switch : OFF

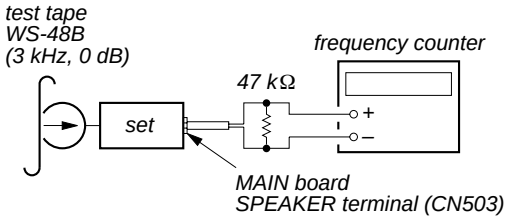
TAPE DECK SECTION | 0 dB=0.775 V

Test tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Tape Speed Adjustment

Setting:
Function: TAPE

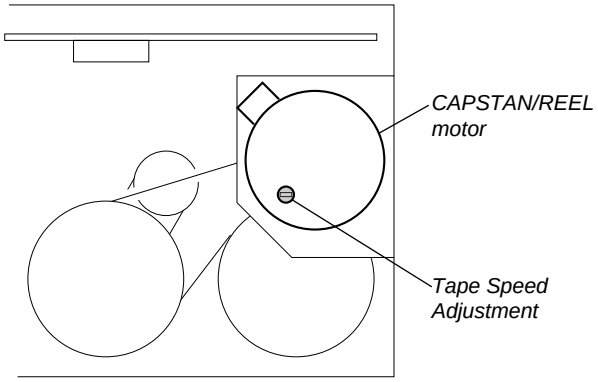


Procedure:
1. Playback WS-48B (tape center) in the FWD state.
2. Adjsut the volume in CAPSTAN/REEL motor so that the frequency counter reading becomes 3,000 Hz.

Specified Value: 2,910 to 3,090 Hz

3. Confirm that the frequency at the beginning and that at the end of tape winding are between 2,955 to 3,045 Hz.

Adjustment Location:



Sample Value of Wow and Flutter: 0.3% or less W. RMS (JIS)
(WS-48B)

TUNER SECTION

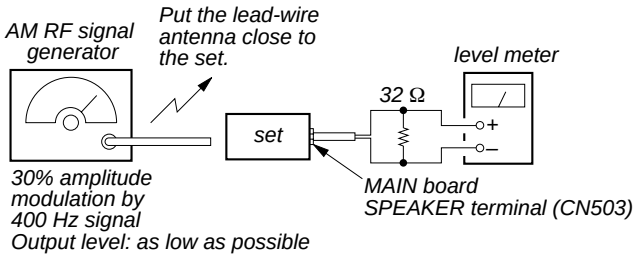
0 dB=1 μV

[AM]

Setting:

Function : TUNER

Band switch : AM

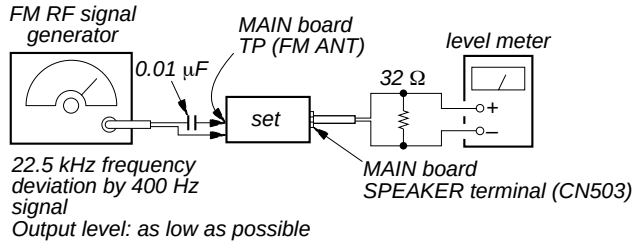


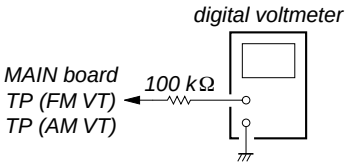
[FM]

Setting:

Function : TUNER

Band switch : FM





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

no mark : EXCEPT AEP, UK, Chinese models

< > : AEP, UK, Chinese models

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T401 <T406>	450 kHz

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L408 <T402>	530 kHz <531 kHz>	1.3 ± 0.1 V
Confirmation	1,710 kHz <1,602 kHz>	7.8 ± 0.5 V <7.1 ± 0.5 V>

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L407 <T401>	603 kHz
TC402 <TC401>	1,404 kHz

FM FREQUENCY COVERAGE CONFIRMATION		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
Confirmation	87.5 MHz	2.4 ± 0.1 V <1.4 to 1.6 V>
Confirmation	108 MHz	6.8 ± 0.5 V <7.3 to 8.5 V>

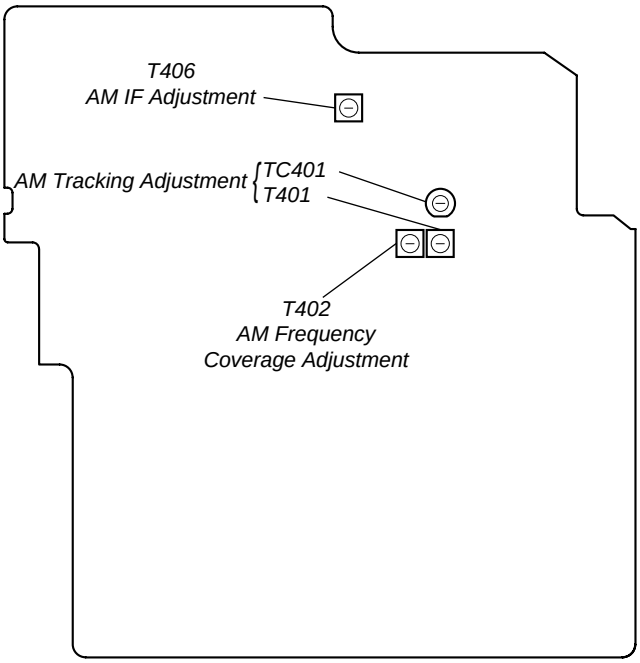
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
TC401	106.1 MHz

(EXCEPT AEP, UK, Chinese models)

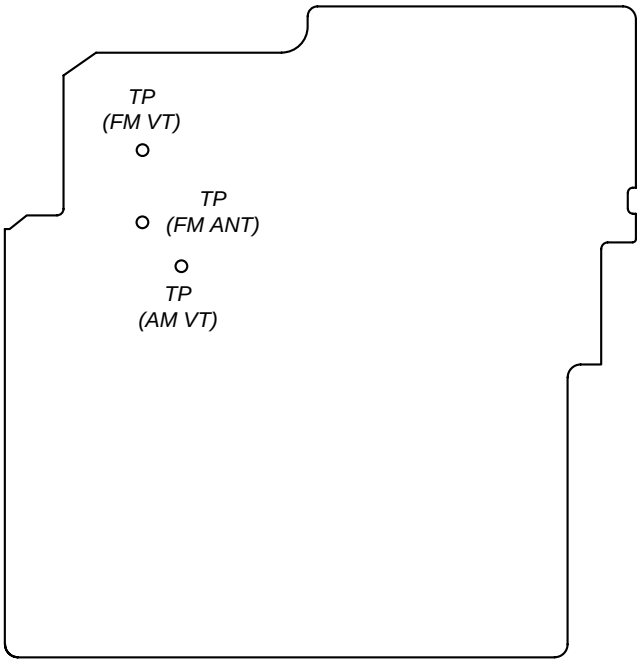
Adjustment Location: MAIN board (See page 14)

Adjustment Location and Connecting Points

– MAIN BOARD (Component Side) –

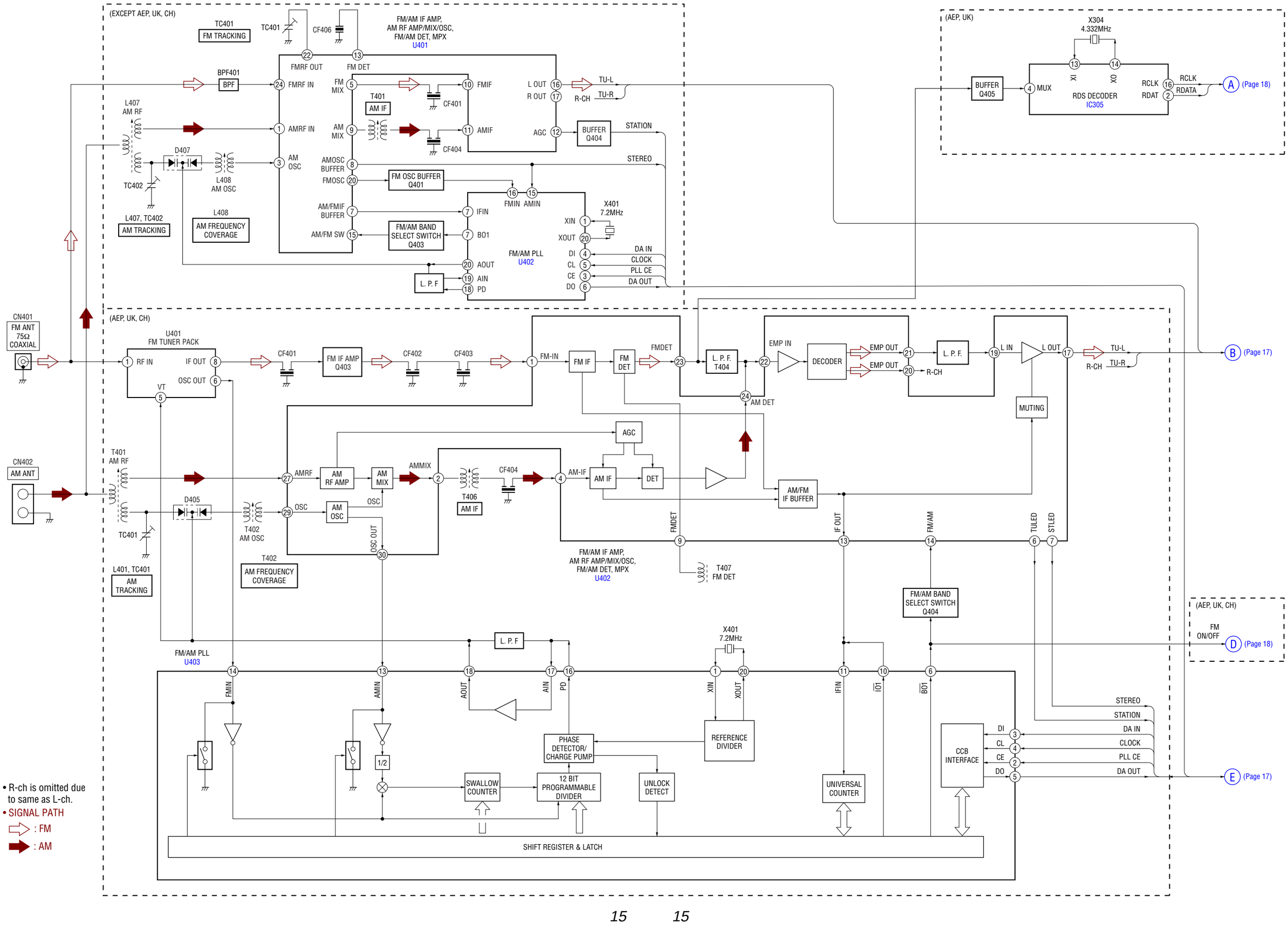


– MAIN BOARD (Conductor Side) –

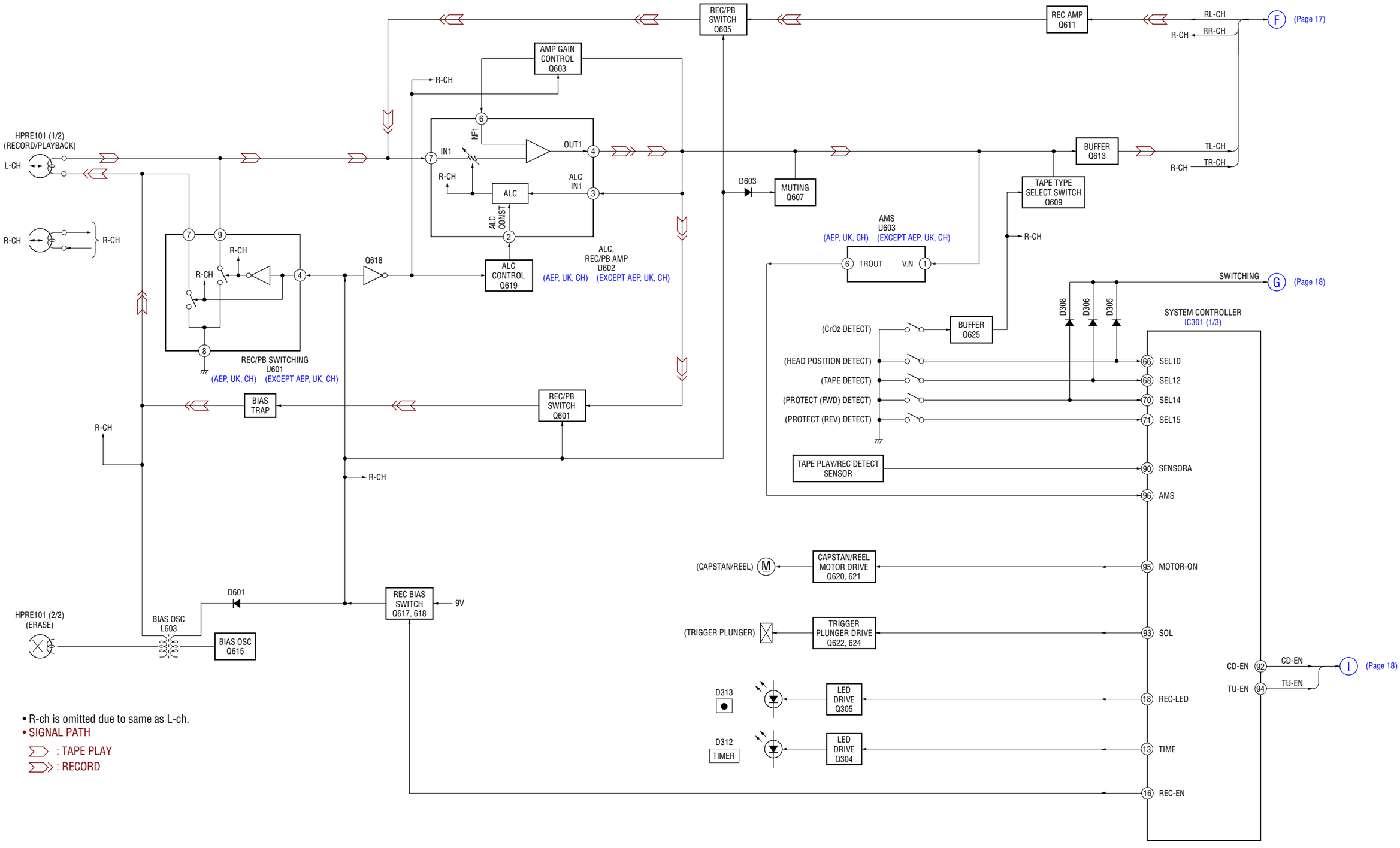


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – TUNER Section –

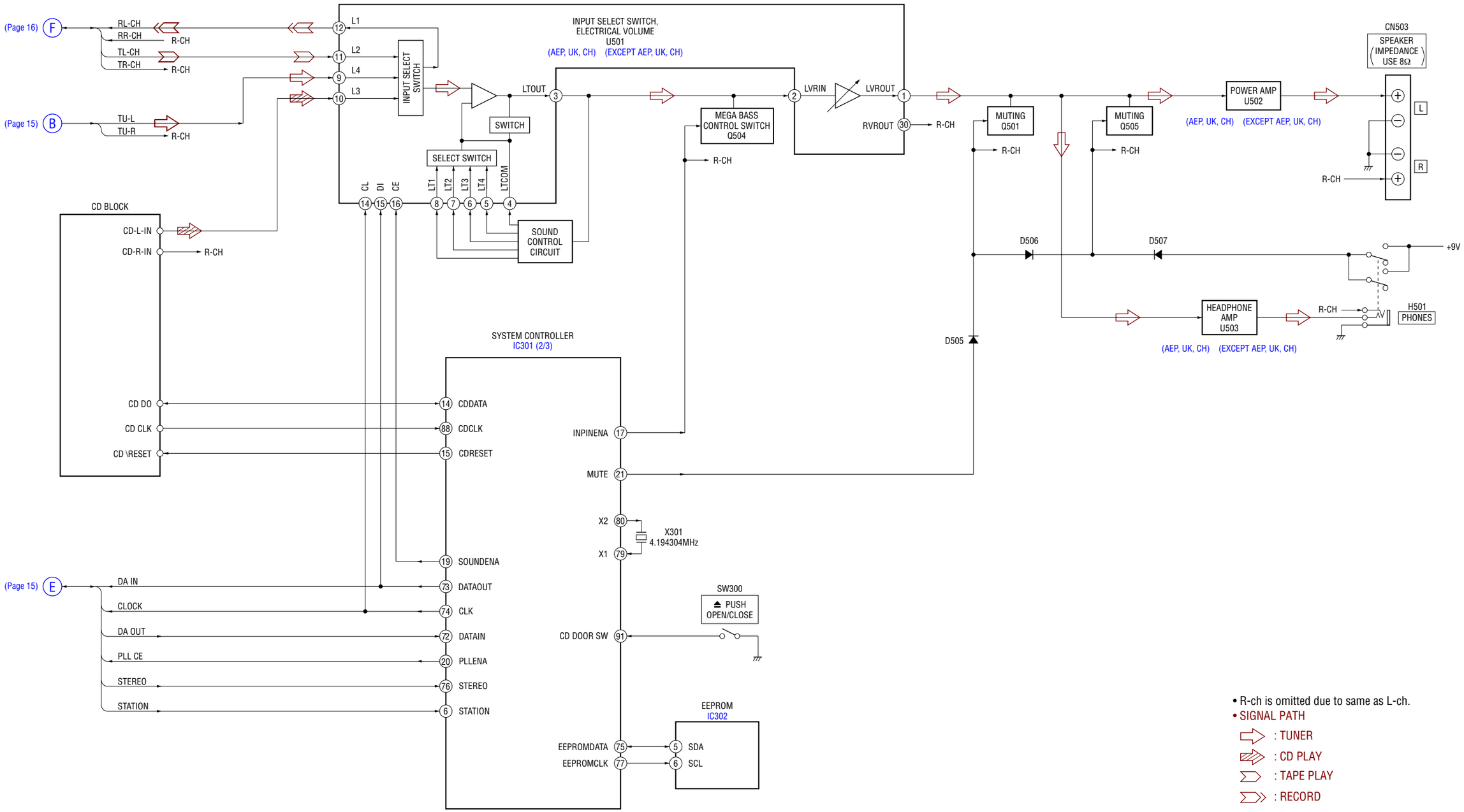


6-2. BLOCK DIAGRAM – TAPE DECK Section –



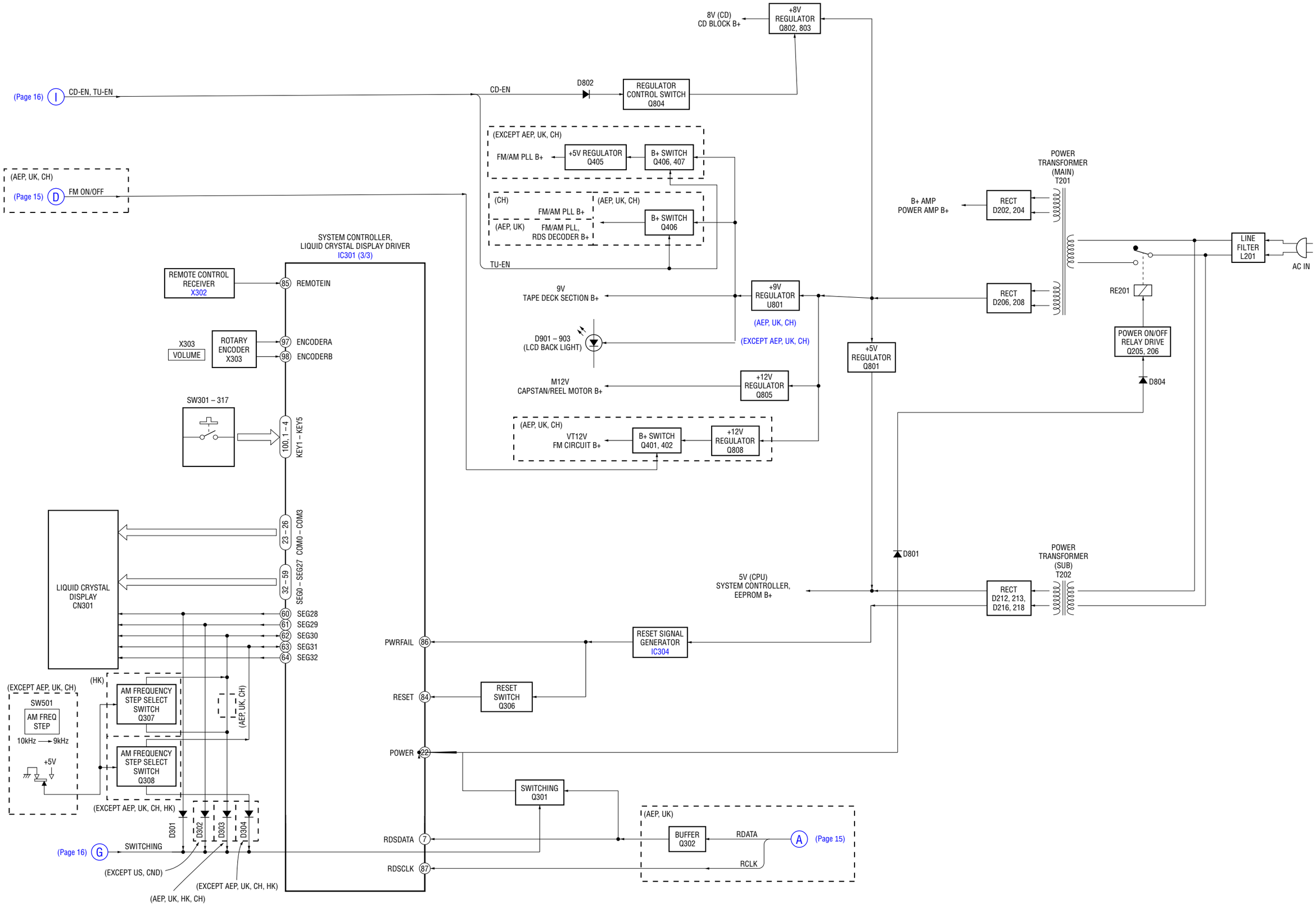
• R-ch is omitted due to same as L-ch.
• SIGNAL PATH
: TAPE PLAY
: RECORD

6-3. BLOCK DIAGRAM – MAIN Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER
  - : CD PLAY
  - : TAPE PLAY
  - : RECORD

6-4. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:
- ○——— : parts extracted from the component side.
- ⬚← : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

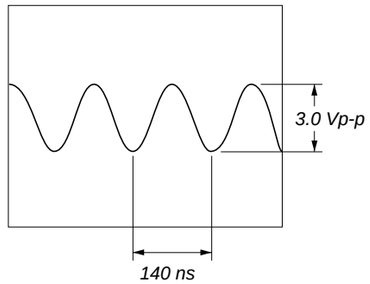
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : TAPE PLAY
  - ⇨ : RECORD
  - ⇨ : CD PLAY
- Abbreviation

AR	: Argentina model
CH	: Chinese model
CND	: Canadian model
E51	: Chilean and Peruvian models
HK	: Hong Kong model

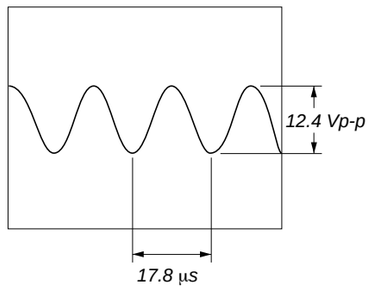
• Waveforms

– MAIN Board (AEP, UK, CH models) –

❶ U403 ⑳ (XOUT) (TUNER mode)

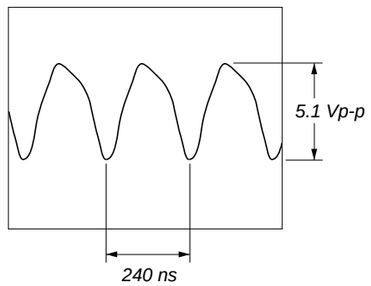


❷ Q615 (Collector) (REC mode)

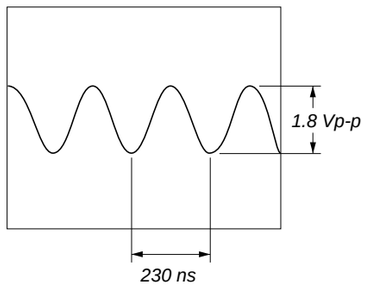


– DISPLAY Board –

❸ IC301 ㊾ (X1)

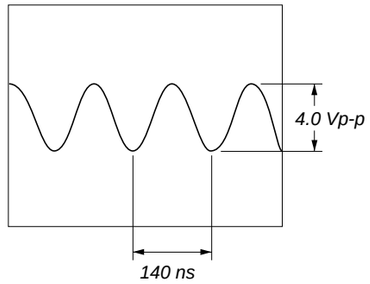


❹ IC305 ⑭ (XO) (AEP, UK model)

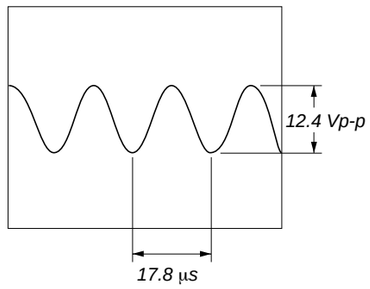


– MAIN Board (Except AEP, UK, CH models) –

㉑ U402 ㉒ (XOUT) (TUNER mode)



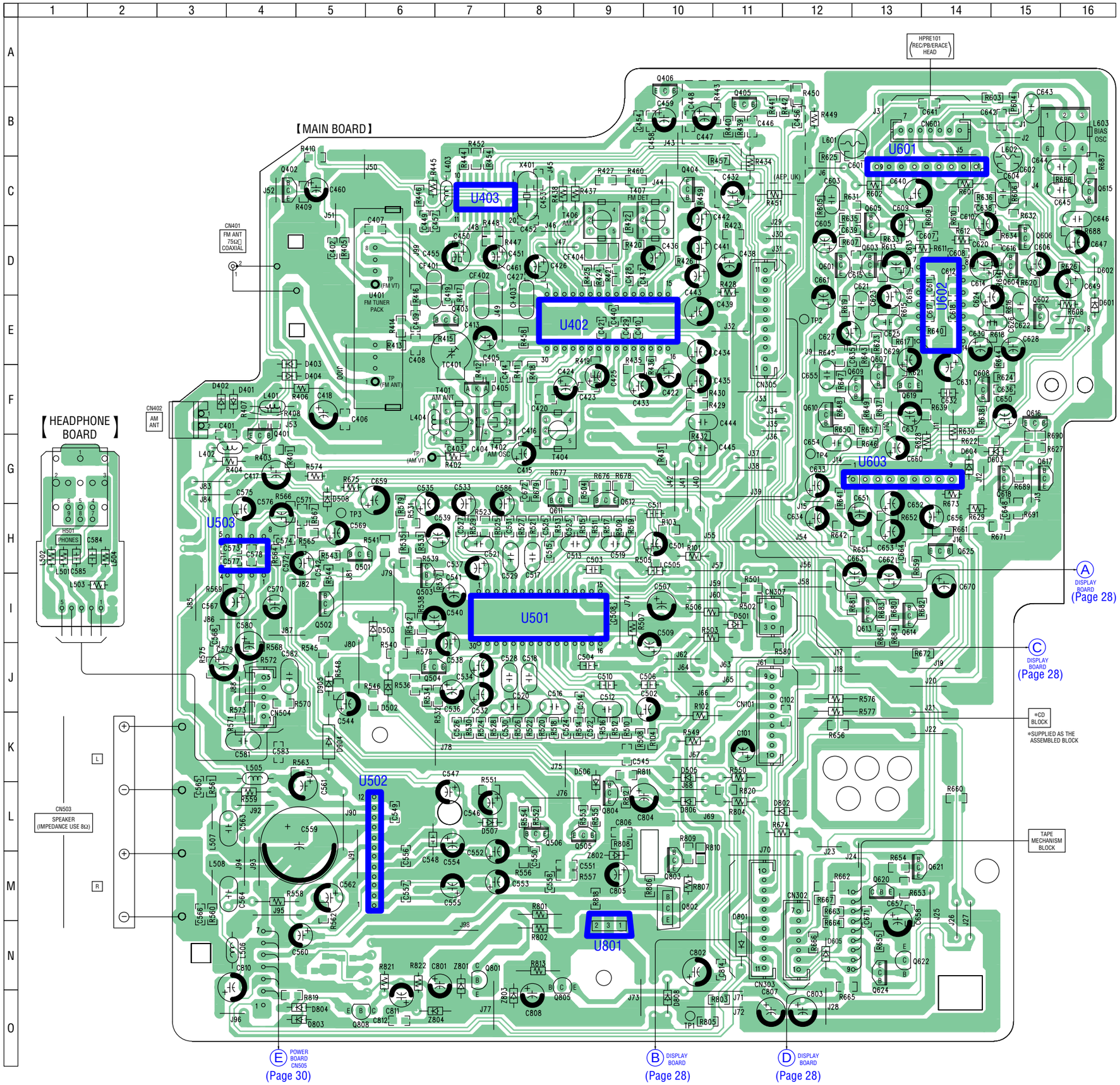
㉒ Q615 (Collector) (REC mode)



6-6. PRINTED WIRING BOARDS – MAIN Section (AEP, UK, CH models) –

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D401	F-4	Q605	C-13
D402	F-3	Q606	D-15
D403	F-4	Q607	F-13
D404	F-4	Q608	F-14
D405	F-7	Q609	F-13
D501	I-11	Q610	F-12
D502	J-6	Q611	G-8
D503	I-6	Q612	G-9
D505	K-10	Q613	I-13
D506	L-9	Q614	I-13
D507	L-7	Q615	C-15
D508	G-5	Q616	F-15
D601	E-16	Q617	G-15
D603	G-15	Q618	G-15
D604	G-14	Q619	F-13
D605	N-12	Q620	M-13
D801	N-11	Q621	M-13
D802	L-11	Q622	N-13
D803	O-5	Q624	N-13
D804	O-5	Q625	H-14
D806	L-10	Q801	N-7
D808	O-10	Q802	M-10
D904	K-5	Q803	M-10
D905	J-5	Q804	L-9
		Q805	N-8
Q401	G-4	Q808	O-5
Q402	C-4		
Q403	E-7	U402	E-9
Q404	C-10	U403	C-7
Q405	B-11	U501	I-8
Q406	B-10	U502	L-6
Q501	H-5	U503	H-4
Q502	I-5	U601	C-14
Q503	I-6	U602	E-14
Q504	J-6	U603	G-13
Q505	L-9	U801	N-9
Q506	L-8		
Q601	D-12	Z801	N-7
Q602	E-15	Z802	M-9
Q603	D-13	Z803	O-8
Q604	D-15	Z804	O-7



6-7. SCHEMATIC DIAGRAM – MAIN Section (AEP, UK, CH models) (1/3) – • See page 19 for Waveform. • See page 32 for IC Block Diagrams.

【MAIN BOARD】(1/3)

(AEP, UK)

U402 FM/AM IF AMP, AM RF AMP/MIX/OSC, FM/AM DET, DET, MPX IC B/D

U403 FM/AM PLL IC B/D

U501 INPUT SELECT SWITCH, ELECTRICAL VOLUME IC B/D

U401 FM TUNER PACK

U402 LA1837

U403 LC72131M

U501 LC75392

Q401, 402 B+ SWITCH

Q403 2SC2999 FM IF AMP

Q404 FM/AM BAND SELECT SWITCH

Q405 2SC2999 BUFFER

Q501 DTC343

Q502 DTC343

Q503 536N

Q504 536N

Q501, 502 MUTING

Q503, 504 MEGA BASS CONTROL

T401,TC401 AM TRACKING

T402 AM FREQUENCY COVERAGE

T401 AM RF

T402 AM OSC

T404 L.P.F

T406 AM IF

T407 FM DET

CN402 AM ANT

CN401 FM ANT 75Ω COAXIAL

CN101 9P

CN303 11P

CN305 11P

X401 7.2MHZ

CD BLOCK (SUPPLIED WITH THE ASSEMBLED BLOCK)

(Page 22) ① MAIN BOARD (2/3) DA_OUT, CLOCK

(Page 22) ② MAIN BOARD (2/3) RR-CH, RL-CH, TR-CH, TL-CH

(Page 29) Ⓐ DISPLAY BOARD

(Page 23) ③ MAIN BOARD (3/3) DBBS, MUTE-LINE, REC_EN, SOL, MOTOR_ON

(Page 22) ④ MAIN BOARD (2/3) POWER-LINE, CD_EN

(Page 29) Ⓑ DISPLAY BOARD

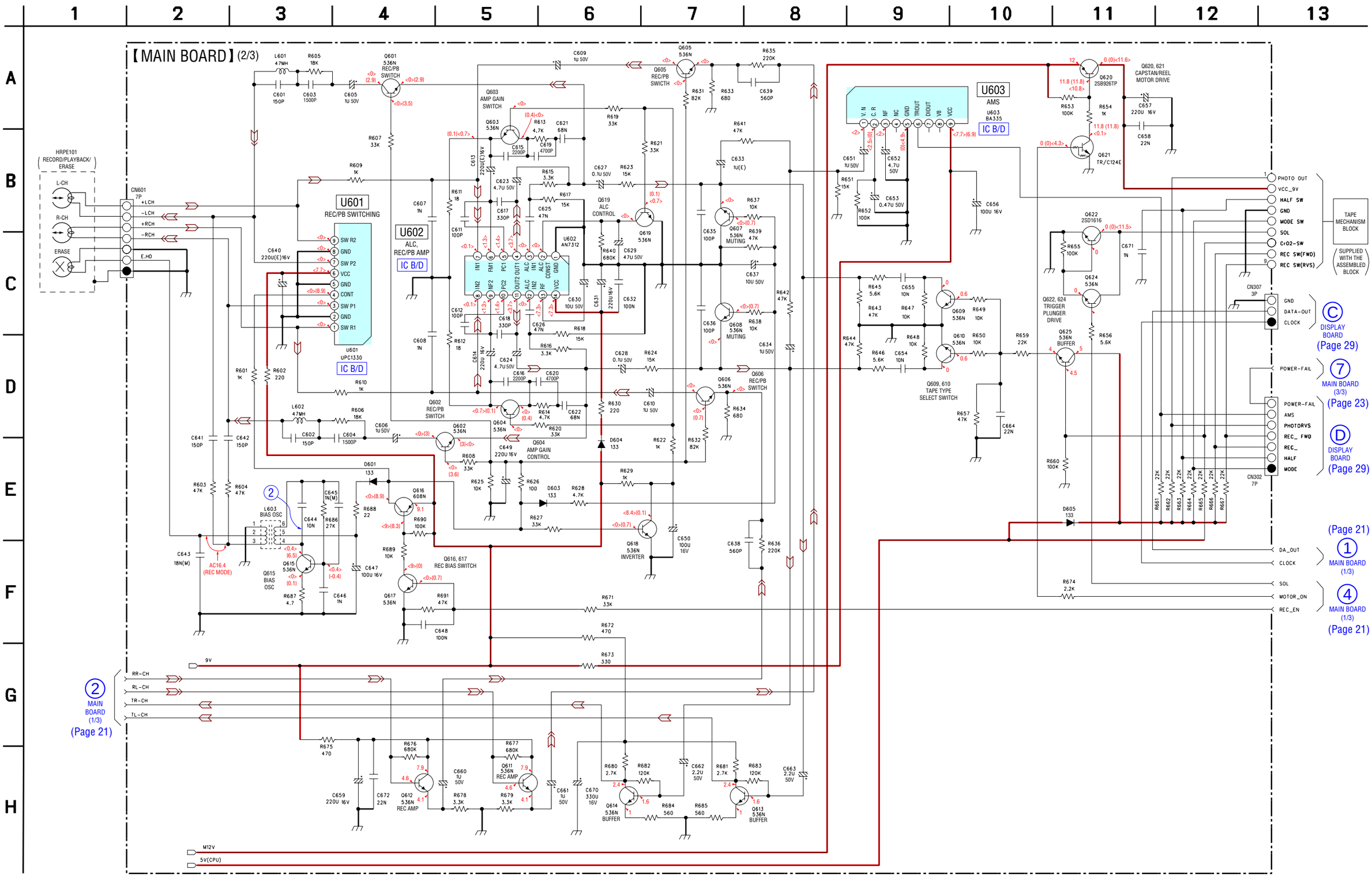
(Page 23) ⑤ MAIN BOARD (3/3) L-CH, R-CH

(Page 23) ⑥ MAIN BOARD (3/3) POWER-LINE, CD_EN

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  [ ] : AM
  ( ) : CD PLAY
  < > : TAPE PLAY

6-8. SCHEMATIC DIAGRAM – MAIN Section (AEP, UK, CH models) (2/3) –

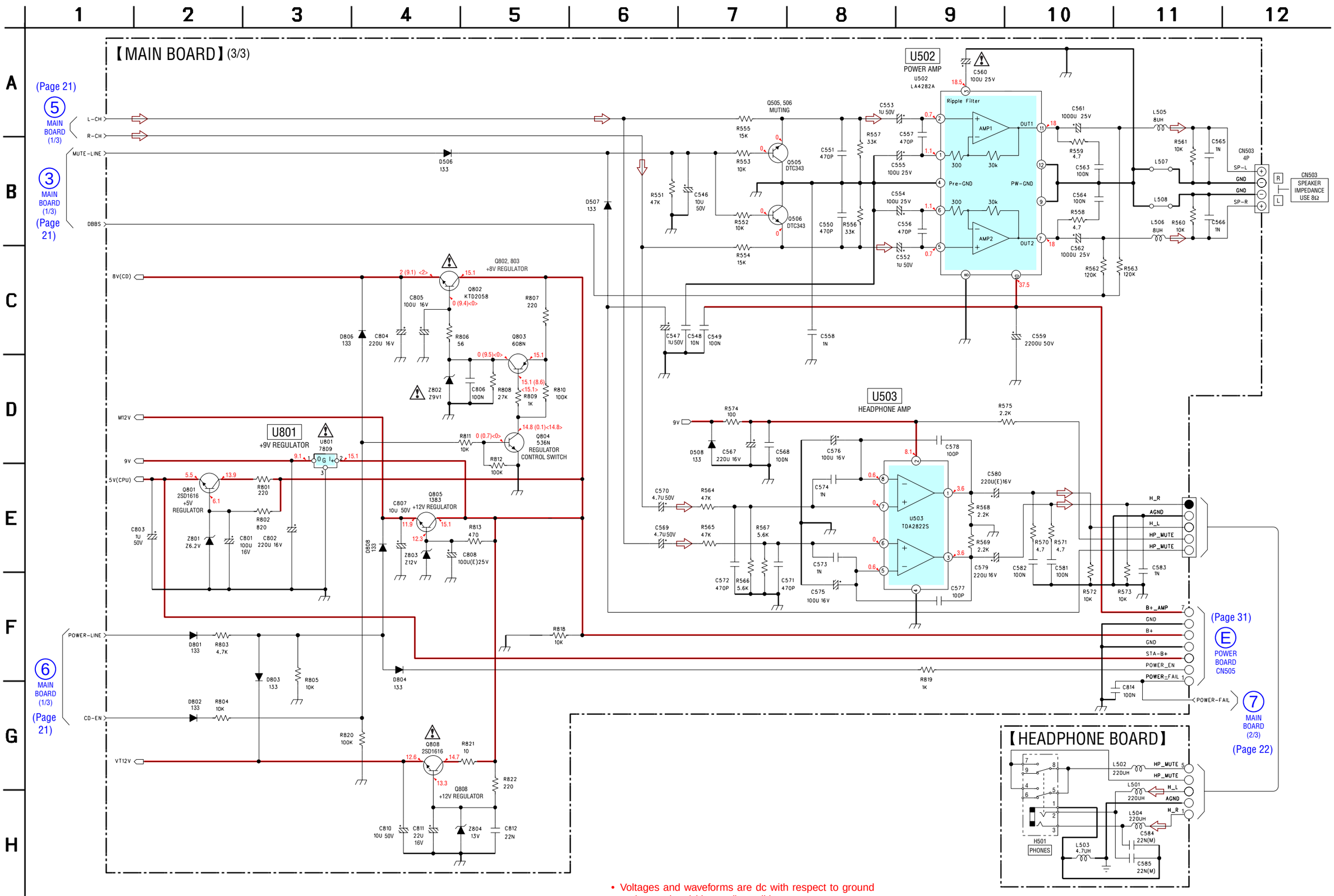
• See page 19 for Waveforms. • See page 32 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  < > : TAPE PLAY
  { } : RECORD

6-9. SCHEMATIC DIAGRAM – MAIN (AEP, UK, CH models) (3/3) Section –

• See page 19 for Waveforms. • See page 32 for IC Block Diagrams.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER
( ) : CD PLAY
< > : TAPE PLAY

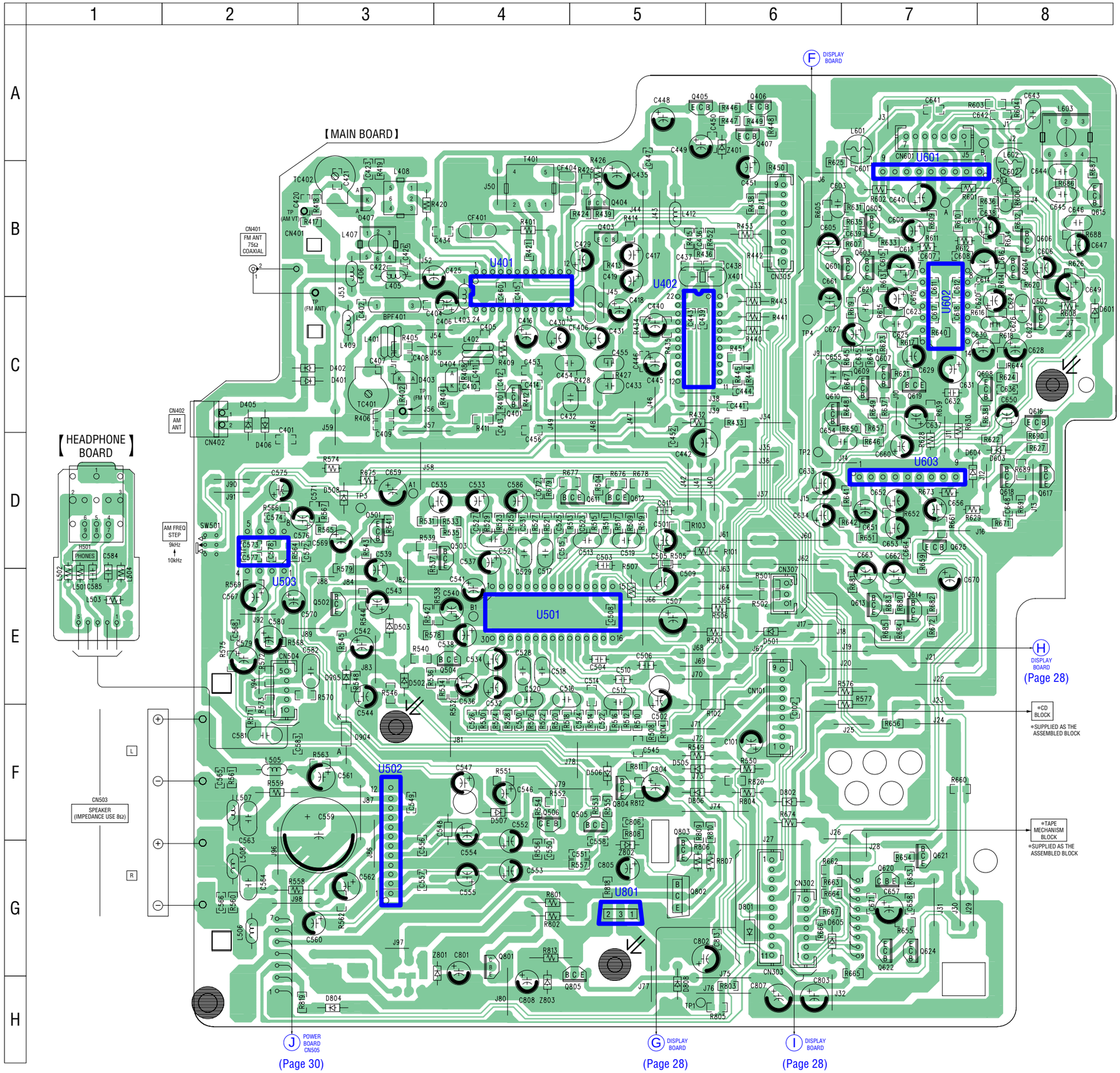
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

6-10. PRINTED WIRING BOARDS – MAIN Section (Except AEP, UK, CH models) –

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D401	F-4	Q605	C-13
D402	F-3	Q606	D-15
D403	F-4	Q607	F-13
D404	F-4	Q608	F-14
D405	F-7	Q609	F-13
D501	I-11	Q610	F-12
D502	J-6	Q611	G-8
D503	I-6	Q612	G-9
D505	K-10	Q613	I-13
D506	L-9	Q614	I-13
D507	L-7	Q615	C-15
D508	G-5	Q616	F-15
D601	E-16	Q617	G-15
D603	G-15	Q618	G-15
D604	G-14	Q619	F-13
D605	N-12	Q620	M-13
D801	N-11	Q621	M-13
D802	L-11	Q622	N-13
D803	O-5	Q624	N-13
D804	O-5	Q625	H-14
D806	L-10	Q801	N-7
D808	O-10	Q802	M-10
D904	K-5	Q803	M-10
D905	J-5	Q804	L-9
		Q805	N-8
Q401	G-4	Q808	O-5
Q402	C-4		
Q403	E-7	U402	E-9
Q404	C-10	U403	C-7
Q405	B-11	U501	I-8
Q406	B-10	U502	L-6
Q501	H-5	U503	H-4
Q502	I-5	U601	C-14
Q503	I-6	U602	E-14
Q504	J-6	U603	G-13
Q505	L-9	U801	N-9
Q506	L-8		
Q601	D-12	Z801	N-7
Q602	E-15	Z802	M-9
Q603	D-13	Z803	O-8
Q604	D-15	Z804	O-7



6-11. SCHEMATIC DIAGRAM – MAIN Section (Except AEP, UK, CH models) (1/3) –

• See page 19 for Waveform. • See page 32 for IC Block Diagrams.

【MAIN BOARD】(1/3)

U401 FM/AM IF AMP, MIX, OSC, DET, MPX — IC B/D

U402 FM/AM PLL — IC B/D

U501 INPUT SELECT SWITCH, ELECTRICAL VOLUME — IC B/D

TC401 FM TRACKIG

L407, TC402 AM TRACKIG

L408 AM FREQUENCY COVERAGE

T401 AM IF

(Page 26) 11 MAIN BOARD (2/3)

(Page 26) 12 MAIN BOARD (2/3)

(Page 29) F DISPLAY BOARD

(Page 27) 13 MAIN BOARD (3/3)

14 MAIN BOARD (2/3) (Page 26)

G DISPLAY BOARD (Page 29)

15 MAIN BOARD (3/3) (Page 27)

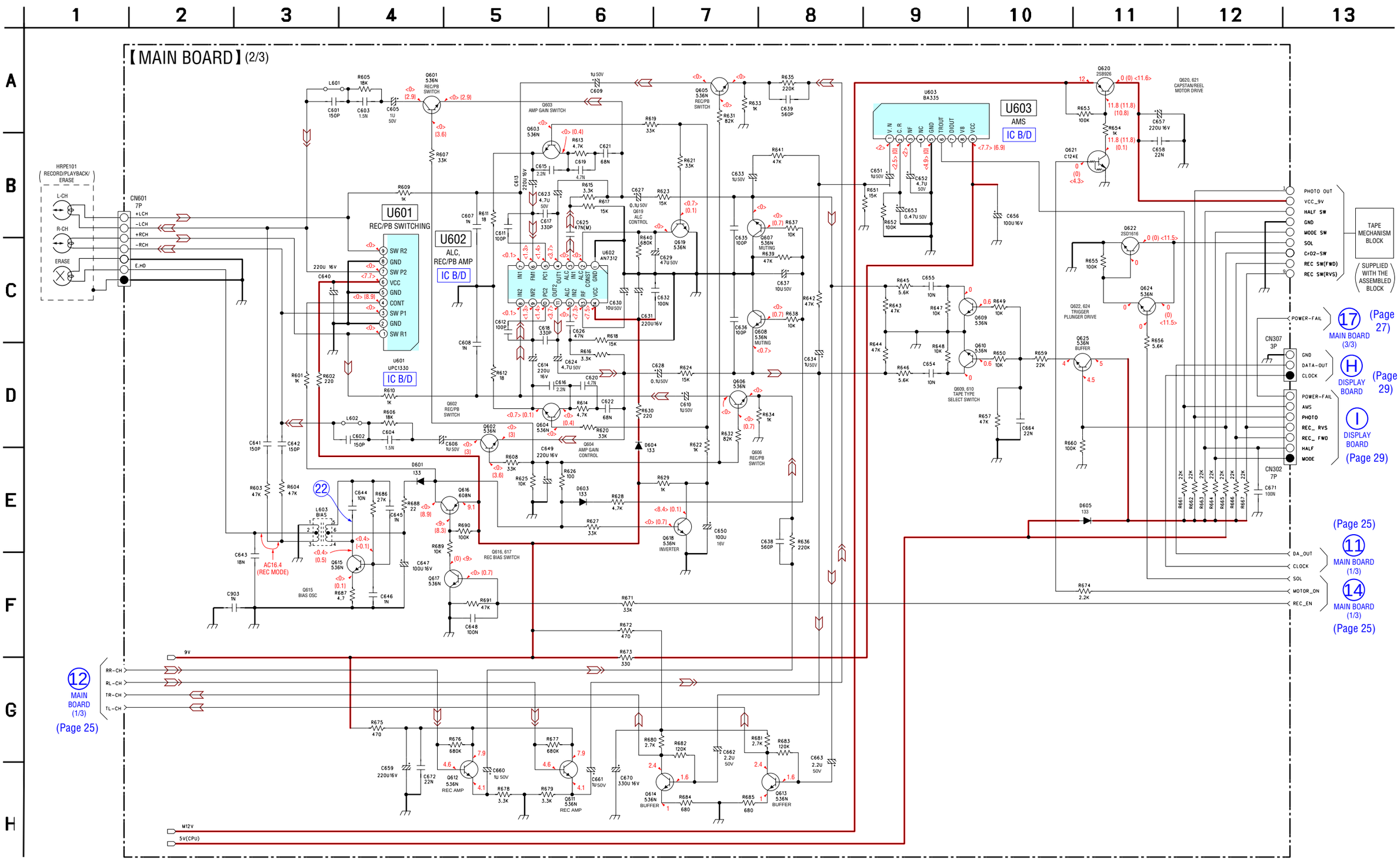
16 MAIN BOARD (3/3) (Page 27)

CD BLOCK — SUPPLIED WITH THE ASSEMBLED BLOCK

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  [ ] : AM
  ( ) : CD PLAY
  < > : TAPE PLAY

6-12. SCHEMATIC DIAGRAM – MAIN Section (Except AEP, UK, CH models) (2/3) –

• See page 19 for Waveforms. • See page 32 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  < > : TAPE PLAY
  { } : RECORD

6-13. SCHEMATIC DIAGRAM – MAIN (Except AEP, UK, CH models) (3/3) Section –

• See page 19 for Waveforms. • See page 32 for IC Block Diagrams.

【MAIN BOARD】(3/3)

U502 POWER AMP
U502 LA4282A
WARNING
Ripple Filter
AMP1
AMP2
Pre-GND
PW-GND

U503 HEADPHONE AMP
U503 TDA2822

U801 +9V REGULATOR
Q801 +5V REGULATOR
Q801 2SD1616
U801 7809
Q802, 803 +8V REGULATOR
Q802 KTD2058
Q803 2SA608
Q804 936N REGULATOR CONTROL SWITCH
Q805 13B3 +12V REGULATOR

CN503 4P (SP-L, GND, GND, SP-R) → CN503 SPEAKER IMPEDANCE USE 8Ω (L, R)
CN504 5P (H_R, AGND, H_L, HP_MUTE, HP_MUTE)

(Page 25) 15 MAIN BOARD (1/3): L-CH, R-CH, MUTE-LINE
13 MAIN BOARD (1/3) (Page 25): DBBS
16 MAIN BOARD (1/3) (Page 25): POWER-LINE, CD-EN
(Page 31) J POWER BOARD CN505: B+_AMP, GND, B+, GND, STA-B+, POWER_EN, POWER-FAIL
17 MAIN BOARD (2/3) (Page 26): POWER-FAIL

【HEADPHONE BOARD】
H501 PHONES
L502 220UH, L501 220UH, L504 220UH, L503 4.7UH
C584 22N(M), C585 22N(M)
HP_MUTE, HP_MUTE, H_L, AGND, H_R

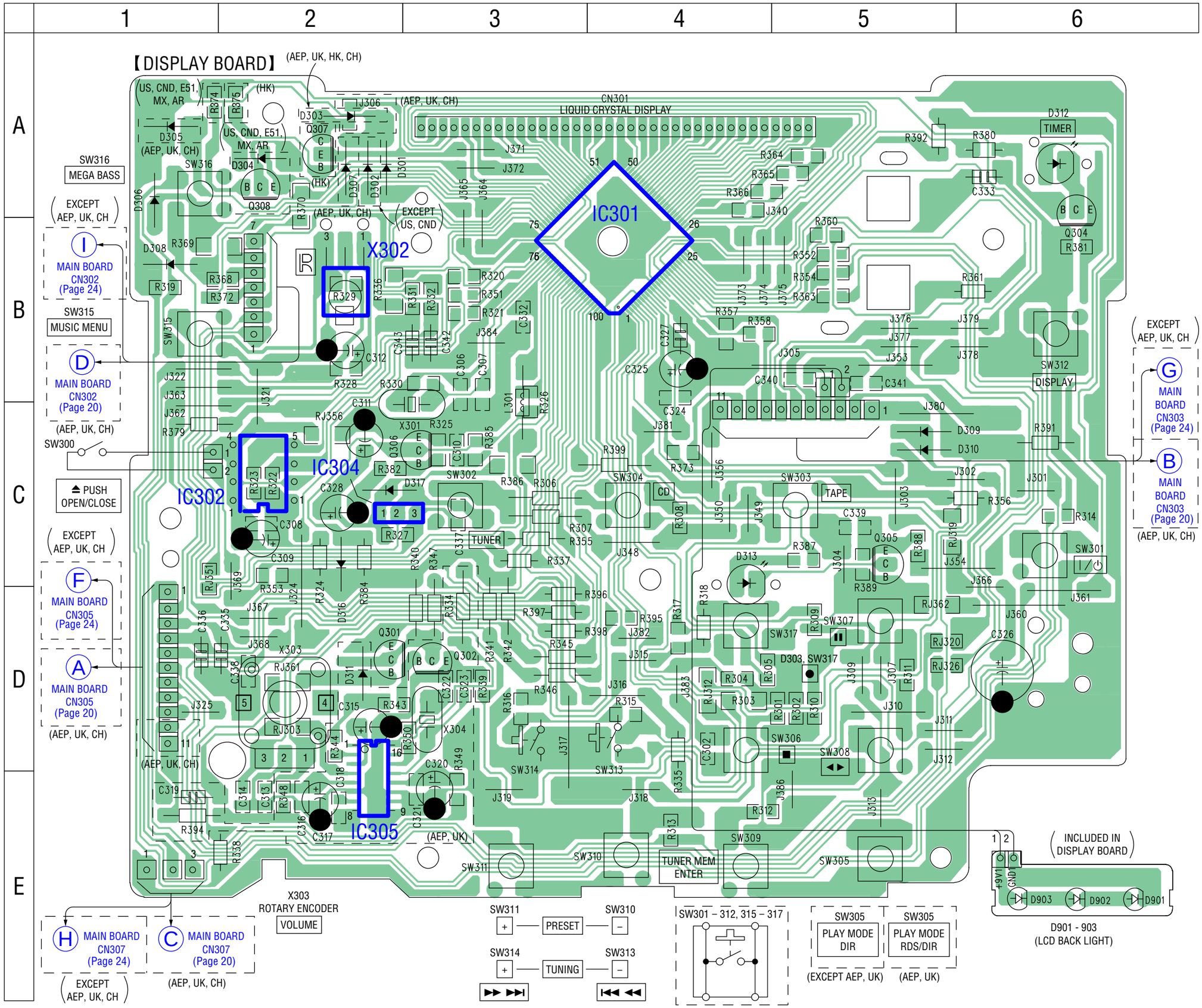
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  < > : TAPE PLAY

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-14. PRINTED WIRING BOARD – DISPLAY Section –

- **Semiconductor Location**

Ref. No.	Location
D301	A-2
D302	A-2
D303	A-2
D304	A-2
D305	A-1
D306	A-1
D307	A-2
D308	B-1
D309	C-5
D310	C-5
D311	D-2
D312	A-6
D313	C-4
D316	C-2
D317	C-2
D901	E-6
D902	E-6
D903	E-6
IC301	B-4
IC302	C-2
IC304	C-2
IC305	E-2
Q301	D-2
Q302	D-3
Q304	A-6
Q305	C-5
Q306	C-3
Q307	A-2
Q308	A-2
X302	B-2



6-15. SCHEMATIC DIAGRAM – DISPLAY Section –

• See page 19 for Waveforms. • See page 33 for IC Block Diagram.

【DISPLAY BOARD】

IC301 SYSTEM CONTROLLER, LIQUID CRYSTAL DISPLAY DRIVER
IC301 μPD780306GC-A68-8EU

IC302 ST24C02

IC304 T529 RESET SIGNAL GENERATOR

X302 REMOTE CONTROL RECEIVER
X302 RPM7138-V4

IC305 BU1924 RDS DECODER

IC B/D

CN301 LIQUID CRYSTAL DISPLAY

SW300 PUSH OPEN/CLOSE

D901 – 903 LCD BACK LIGHT

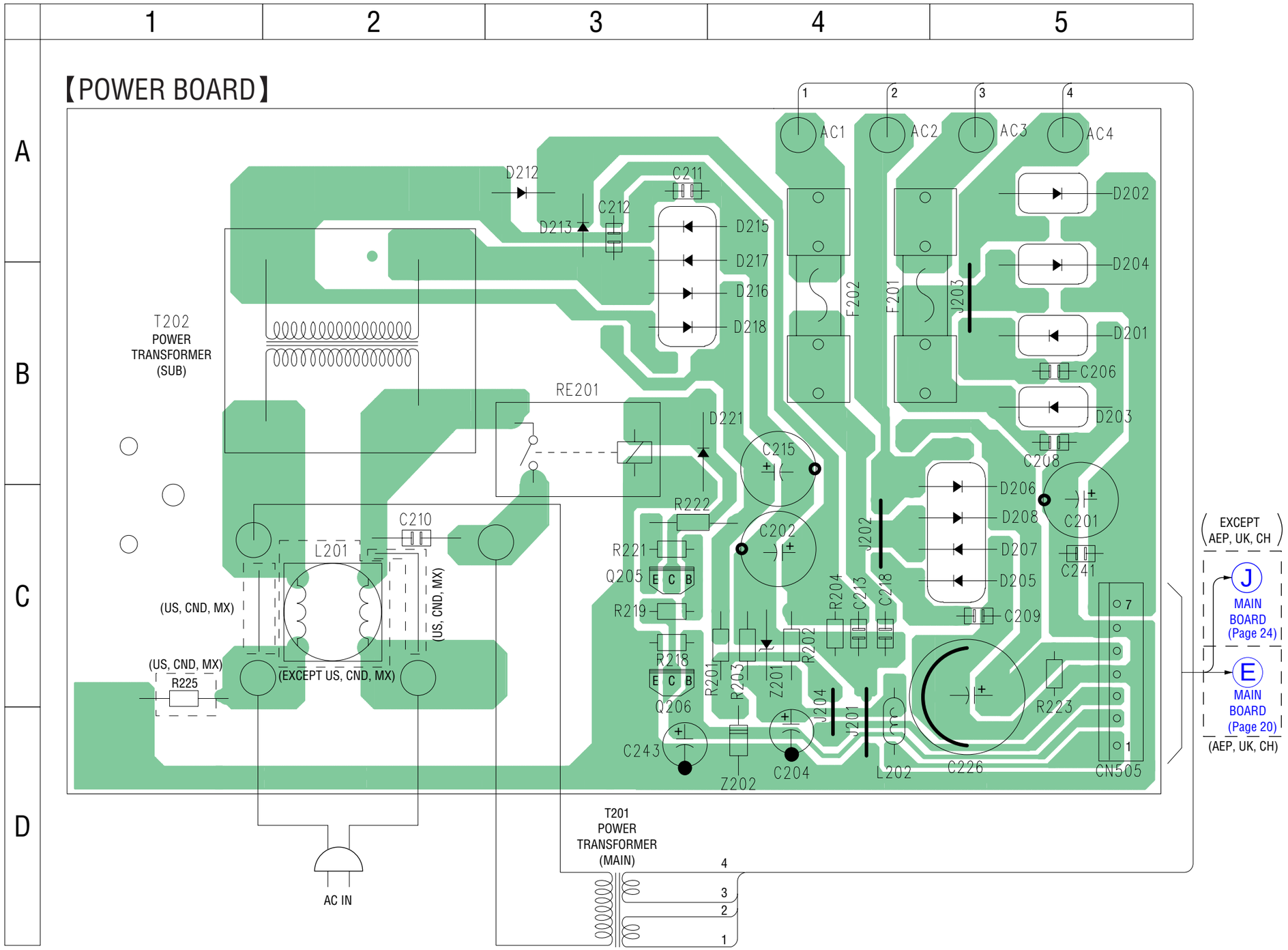
(Page 21) (Page 25) (Page 21) (Page 25)
(Page 22) (Page 22) (Page 26) (Page 26)

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  < > : TAPE PLAY
  * : Impossible to measure

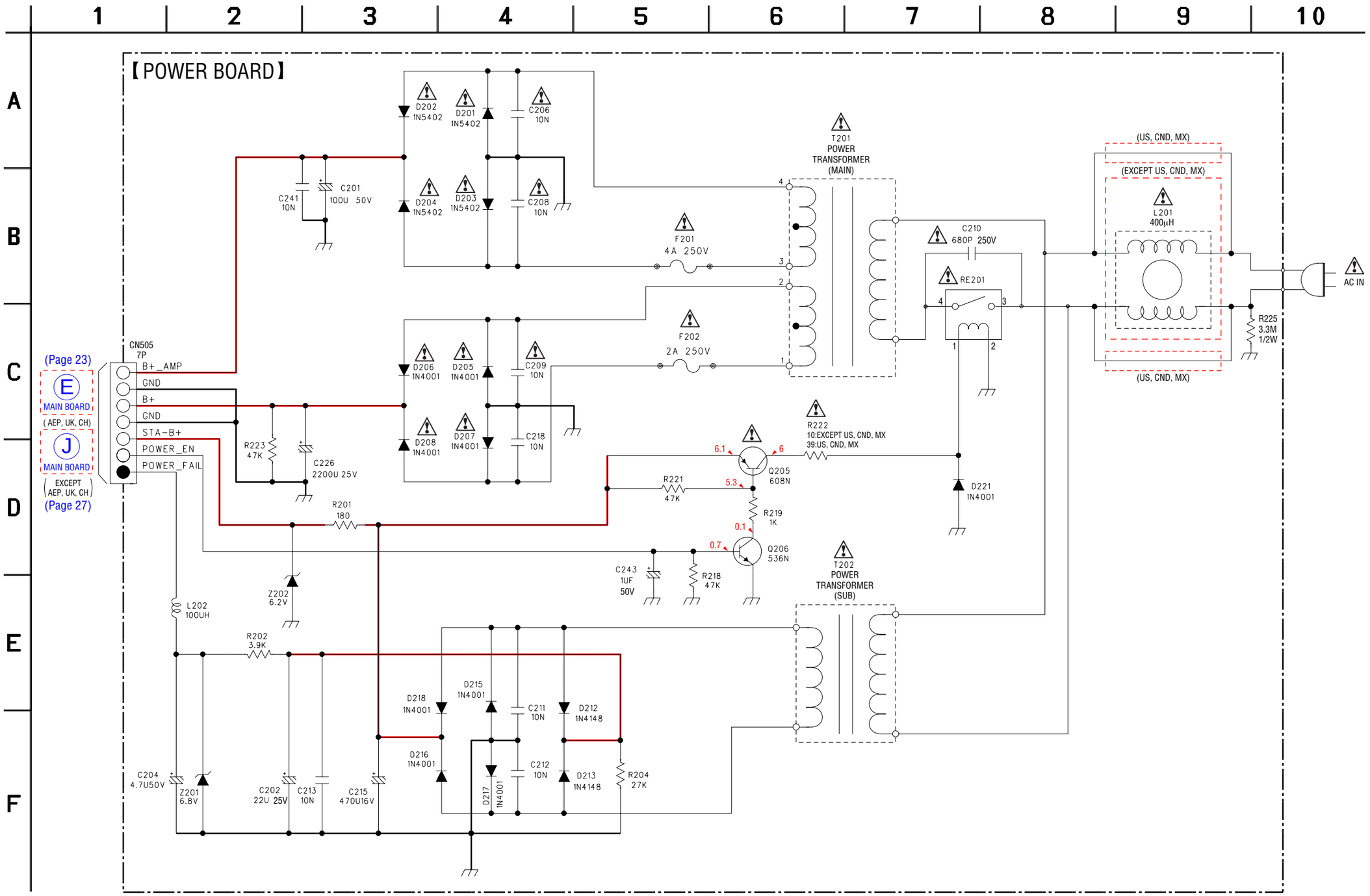
6-16. PRINTED WIRING BOARD – POWER Section –

- **Semiconductor Location**

Ref. No.	Location
D201	B-5
D202	A-5
D203	B-5
D204	B-5
D205	C-5
D206	C-5
D207	C-5
D208	C-5
D212	A-3
D213	A-3
D215	A-3
D216	B-3
D217	A-3
D218	B-3
D221	B-3
Q205	C-3
Q206	C-3
Z201	C-4



6-17. SCHEMATIC DIAGRAM – POWER Section –



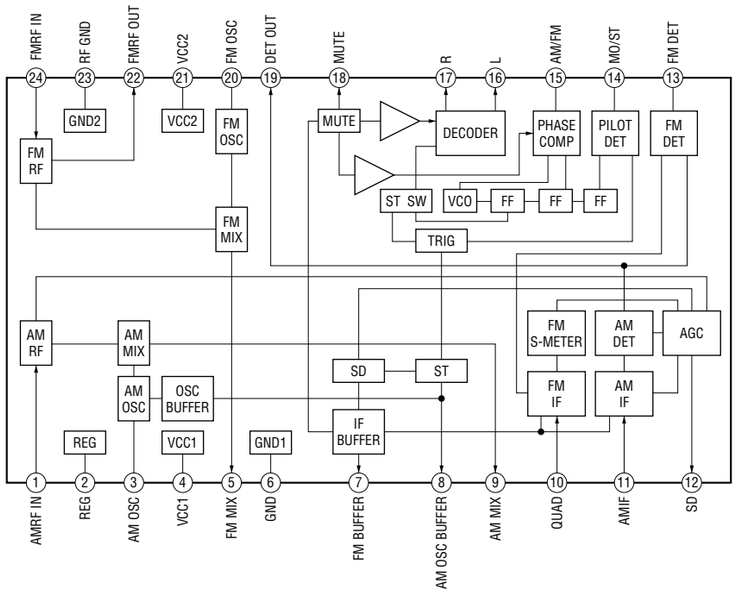
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

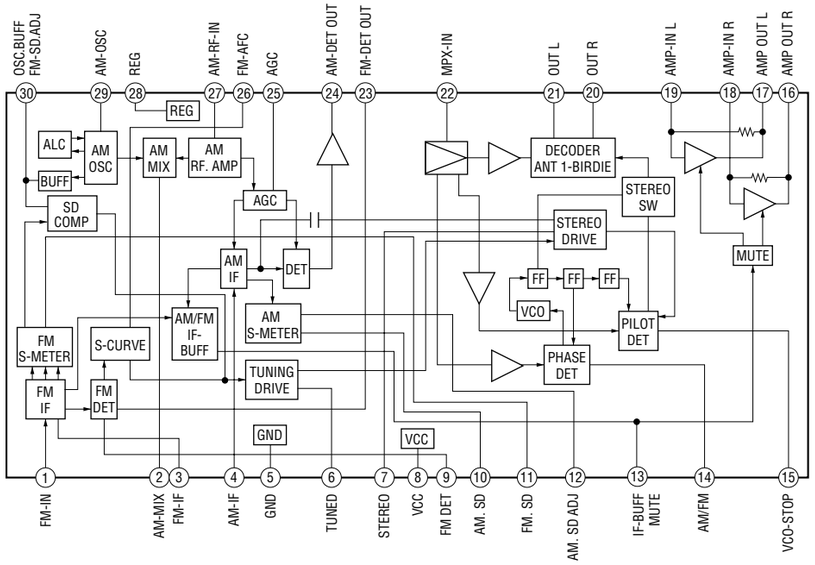
- **IC Block Diagrams**

– MAIN Board –

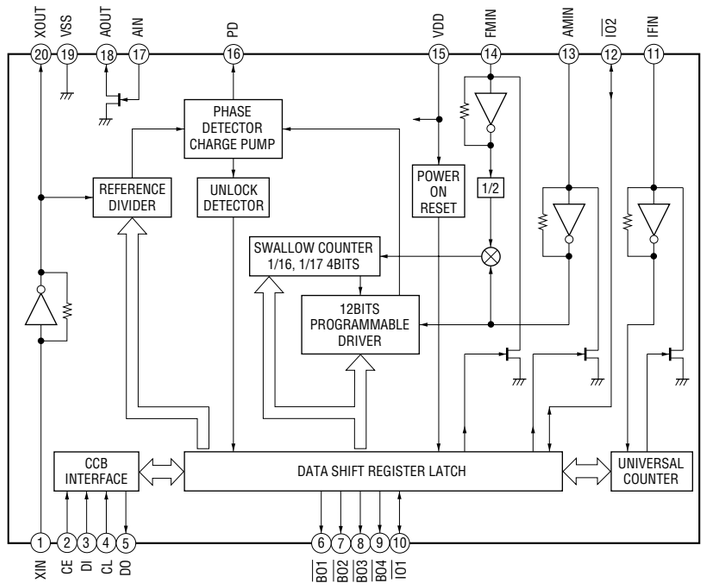
U401 LA1823 (EXCEPT AEP, UK, CH models)



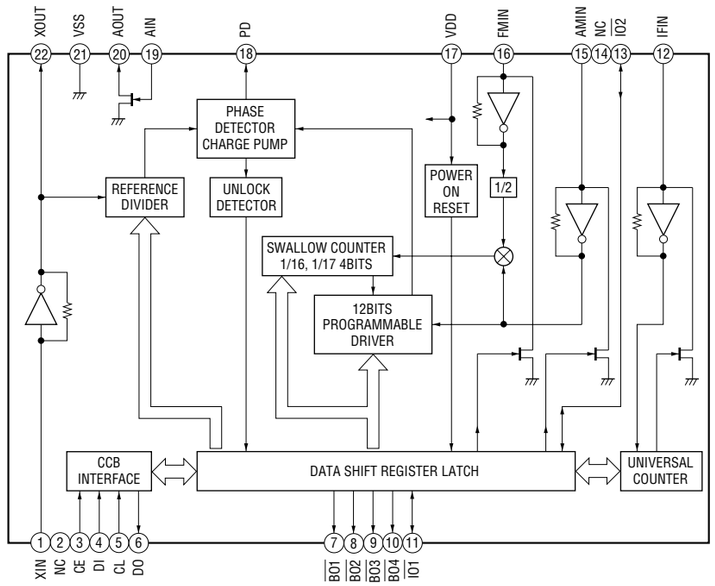
U402 LA1837L (AEP, UK, CH models)



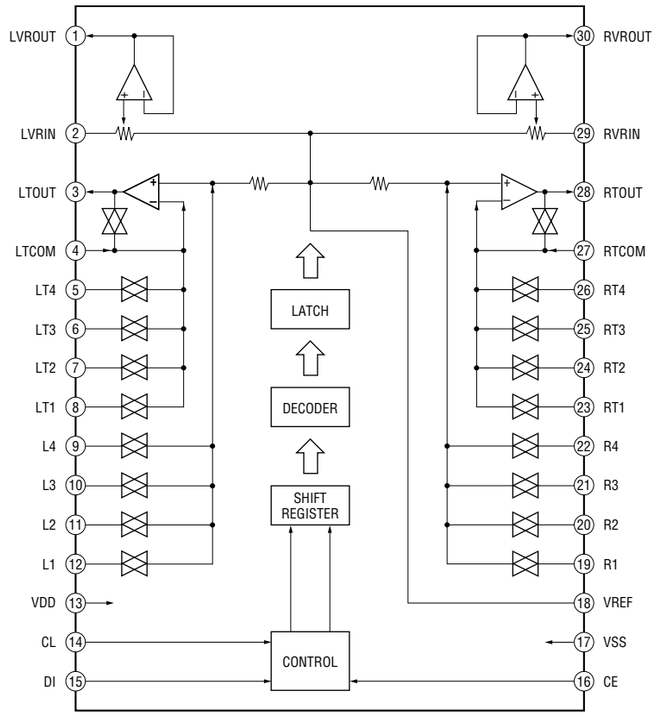
U403 LC72131M-TL-M (AEP, UK, CH models)



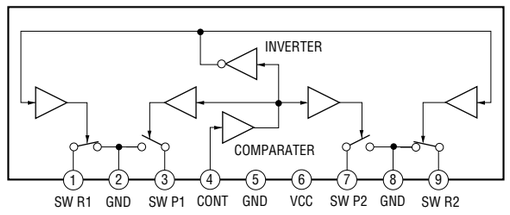
U402 LC72131 (EXCEPT AEP, UK, CH models)



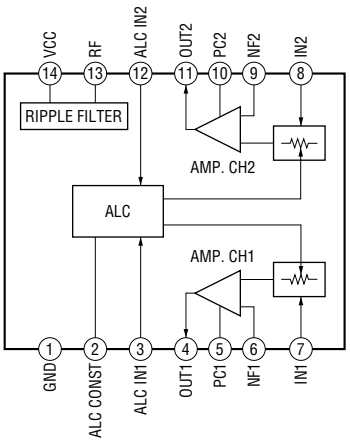
U501 LC75392



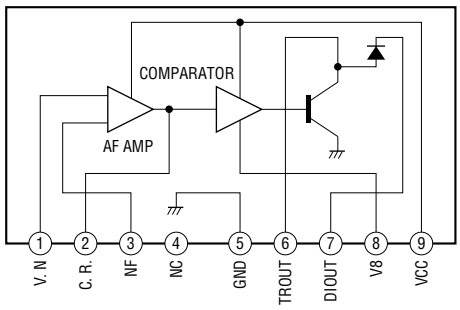
U601 μPC1330HA



U602 AN7312

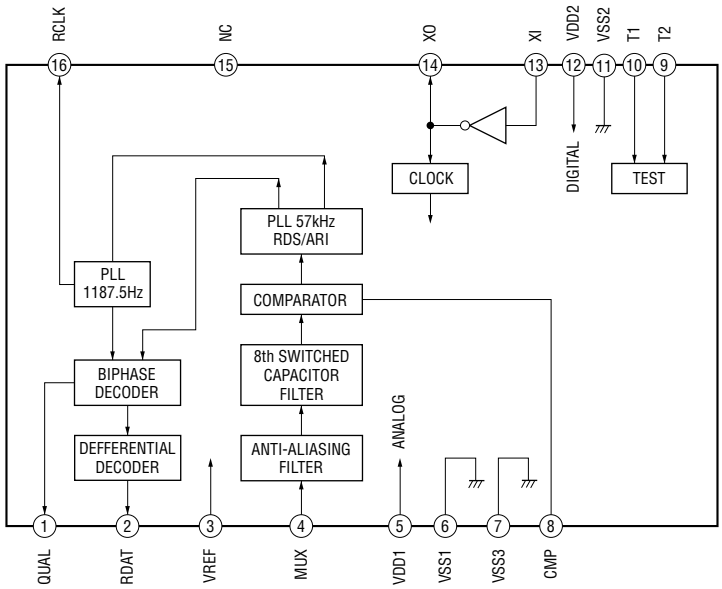


U603 BA335



– DISPLAY Board –

IC305 BU1924F-E2 (AEP, UK models)



6-18. IC PIN FUNCTION DESCRIPTION

• DISPLAY BOARD IC301 μPD780306GC-A68-8EU (SYSTEM CONTROLLER, LIQUID CRYSTAL DISPLAY DRIVER)

Pin No.	Pin Name	I/O	Description
1 to 4	KEY2 to KEY5	I	Key input terminal (A/D input)
5	ANALYZER	I	Analyzer level detection signal input terminal (A/D input) Not used
6	STATION	I	Tuning detection signal input terminal
7	RDSDATA	I	Serial data input from the RDS decoder (Used for the AEP, UK models)
8	AVDD	—	Power supply terminal
9	AVREF	I	Reference voltage input terminal
10, 11	CDOUT1, CDOUT2	O	Not used
12	VSS	—	Ground terminal
13	TIME	O	LED drive signal output terminal
14	CDDATA	I/O	Two-way data bus with the CD block
15	CDRESET	O	Reset signal output to the CD block "L": reset
16	REC-EN	O	REC bias control signal output terminal
17	INPINENA	O	Mega bass on/off selection signal output terminal "H": mega bass on
18	REC-LED	O	LED drive signal output terminal
19	SOUNDENA	O	chip enable signal output foe the LC75392
20	PLLENA	O	PLL chip enable signal output to the FM/AM PLL "H" active
21	MUTE	O	Audio line muting on/off control signal output terminal "H": muting on
22	POWER	O	System power on/off control signal output terminal "H": power on
23 to 26	COM0 to COM3	O	Common drive signal output to the liquid crystal display
27	BIAS	O	Bias output for the liquid crystal display drive
28 to 30	VLC0 to VLC2	I	Input terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
31	VSS	—	Ground terminal
32 to 61	SEG0 to SEG29	O	Segment drive signal output to the liquid crystal display
62	SEG30	I/O	Segment drive signal output to the liquid crystal display AM frequency select switch input terminal (AM frequency select switch: used for the except AEP, UK, chinese models)
63	SEG31	I/O	Segment drive signal output to the liquid crystal display AM frequency select switch input terminal (AM frequency select switch: used for the except AEP, UK, chinese models)
64	SEG32		Segment drive signal output to the liquid crystal display
65	SEG33	O	Segment drive signal output to the liquid crystal display Not used
66	SEL10	I	Head position detect switch input terminal "L": reverse direction, "H": forward direction
67	SEG35	O	Segment drive signal output to the liquid crystal display Not used
68	SEL12	I	Cassette tape detect switch input terminal "L": no cassette, "H": cassette in
69	SEG37	O	Segment drive signal output to the liquid crystal display Not used
70	SEL14	I	Rec-proof claw (forward direction) detection signal input from the protect detect switch "L": recording possible, "H": protect
71	SEL15	I	Rec-proof claw (reverse direction) detection signal input from the protect detect switch "L": recording possible, "H": protect
72	DATAIN	I	Serial data input from the FM/AM PLL
73	DATAOUT	O	Serial data output to the FM/AM PLL and LC75392
74	CLK	O	Serial data transfer clock signal output to the FM/AM PLL and LC75392
75	EEPROMDATA	I/O	Two-way data bus with the EEPROM
76	STEREO	I	FM stereo detection signal input terminal "L": stereo
77	EEPROMCLK	O	Clock signal output to the EEPROM

Pin No.	Pin Name	I/O	Description
78	VSS	—	Ground terminal
79	X2	O	Main system clock output terminal (4.194304 MHz)
80	X1	I	Main system clock input terminal (4.194304 MHz)
81	VDD	—	Power supply terminal
82	XT1	I	Sub system clock input terminal (32.768 kHz) Not used
83	XT2	O	Sub system clock output terminal (32.768 kHz) Not used
84	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
85	REMOTE	I	Remote control signal input from the remote control receiver
86	PWRFAIL	I	Power failure detection signal input terminal "L": power failure, "H": power on
87	RDSCLK	I	Serial data transfer clock signal input from the RDS decoder (Used for the AEP, UK models)
88	CDCLK	I	Serial data transfer clock signal input from the CD block
89	SENSORB	I	Tape sensor input terminal Not used
90	SENSORA	I	Tape play/rec detect sensor input terminal "L" input when the tape play/rec detect
91	CD DOOR SW	I	CD lid open/close detect switch (SW300) input terminal "L": CD lid is closed
92	CD-EN	O	CD power on/off control signal output terminal
93	SOL	O	Trigger plunger drive signal output terminal "H": trigger plunger on
94	TU-EN	O	Tuner power on/off control signal output terminal
95	MOTOR-ON	O	Motor control signal output terminal
96	AMS	I	Whether a music is present or not from AMS is detected at auto music sensor "L": music is not present, "H": music is present
97	ENCODERA	I	Jog dial pulse input from the rotary encoder (VOLUME) (A phase input)
98	ENCODERB	I	Jog dial pulse input from the rotary encoder (VOLUME) (B phase input)
99	AVSS	—	Ground terminal
100	KEY1	I	Key input terminal (A/D input)

SECTION 7
EXPLODED VIEWS

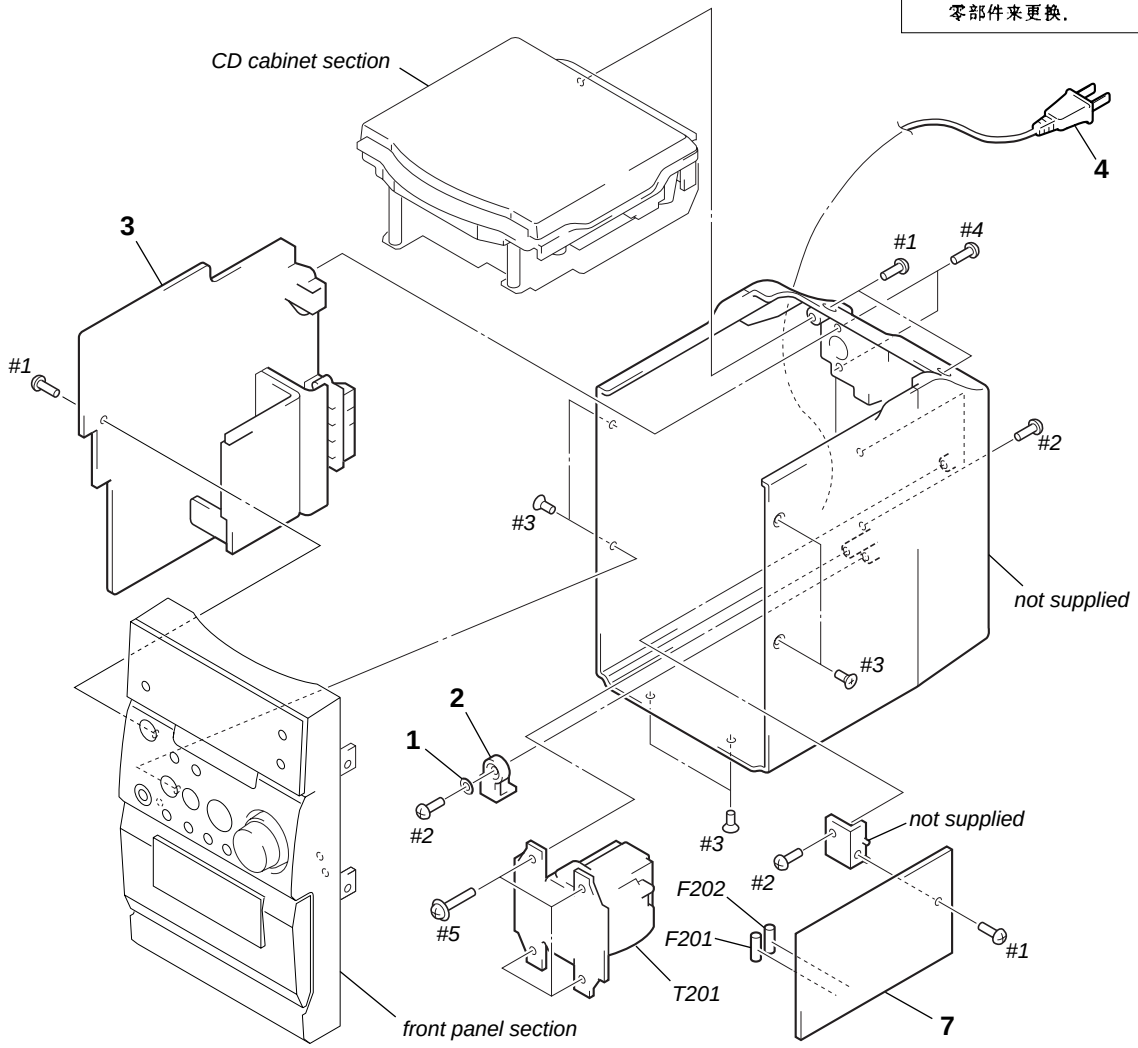
NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  AR : Argentina model
  CH : Chinese model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  HK : Hong Kong model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

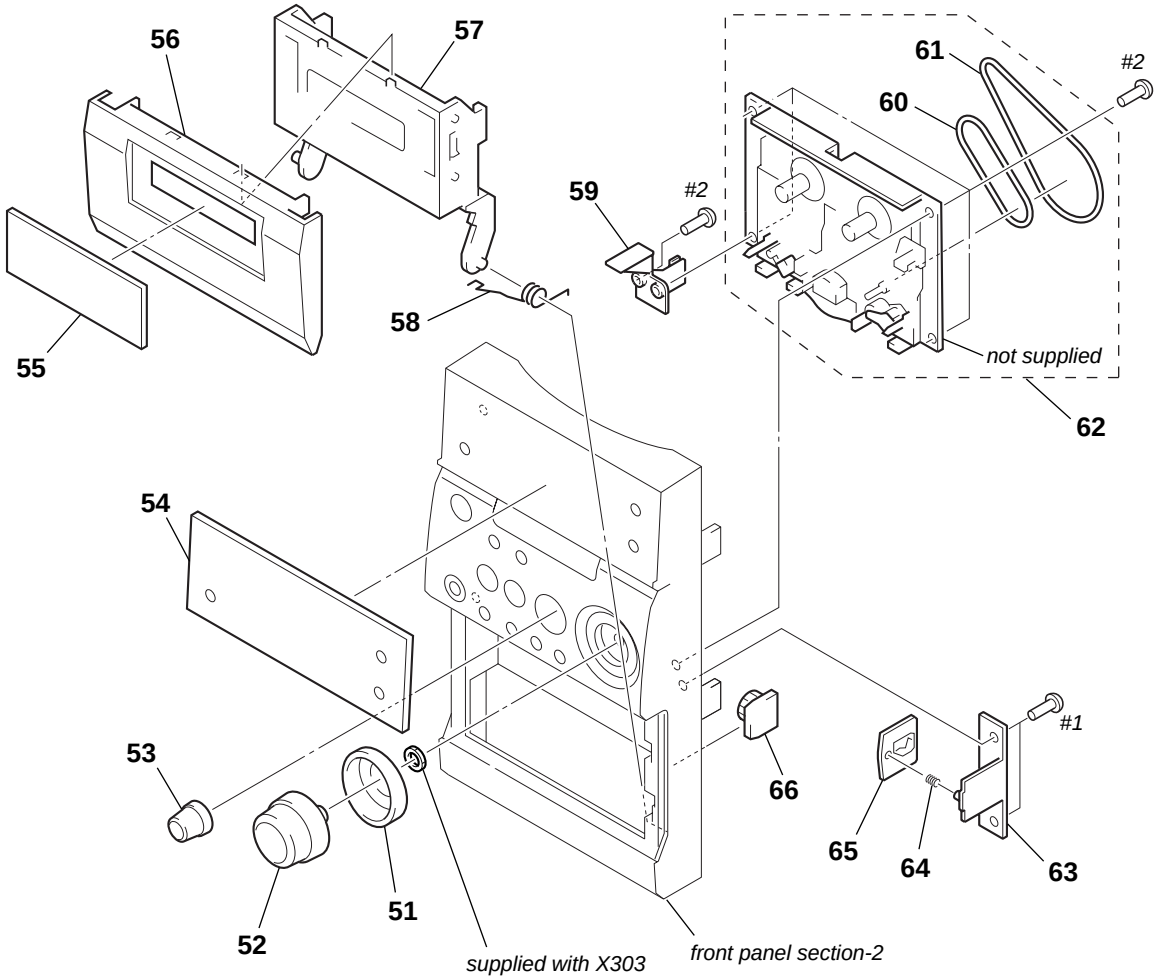
7-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-451-162-00	WASHER	
2	4-235-952-01	AC CORD HOLDER	
3	A-4729-608-A	MAIN BOARD, COMPLETE (AEP, UK)	
3	A-4729-812-A	MAIN BOARD, COMPLETE (CH)	
3	A-4730-007-A	MAIN BOARD, COMPLETE (EXCEPT AEP, UK, CH)	
⚠4	1-555-750-00	CORD, POWER (AEP, E51, HK)	
⚠4	1-696-535-11	CORD, POWER (UK)	
⚠4	1-782-464-21	CORD, POWER (CH)	
⚠4	1-783-820-11	CORD, POWER (US, CND)	
⚠4	1783-941-51	CORD, POWER (AR)	
7	A-4729-610-A	POWER BOARD, COMPLETE (EXCEPT US, CND)	
7	A-4730-008-A	POWER BOARD, COMPLETE (US, CND)	

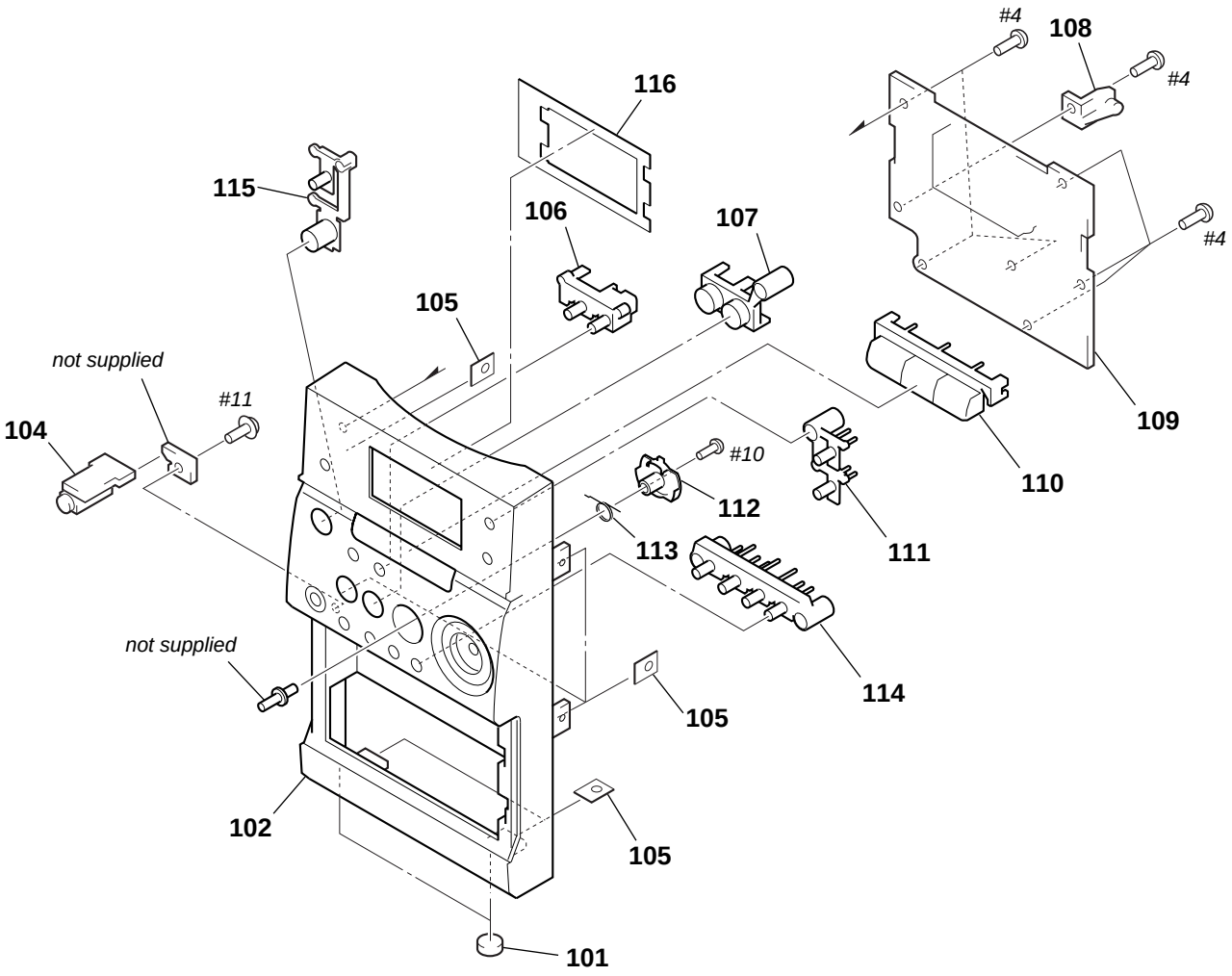
Ref. No.	Part No.	Description	Remark
#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 SLIT	
#3	7-682-246-04	SCREW +K 3X5	
#4	7-685-535-14	SCREW +BTP 2.6X10 TYPE2 N-S	
#5	7-685-648-14	SCREW +BVTP 3X12 TYPE2 SLIT	
⚠F201	1-533-471-11	FUSE, GLASS TUBE (DIA.5) (T4AL/250V) (AEP, UK, E51, CH, AR, HK)	
⚠F201	1-533-296-11	FUSE, GLASS CYLINDRICAL (DIA.5) (US, CND)	
⚠F202	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (US, CND)	
⚠F202	1-533-468-11	FUSE, GLASS TUBE (DIA.5) (T2AL/250V) (AEP, UK, E51, CH, AR, HK)	
⚠T202	1-437-815-11	TRANSFORMER, POWER (AEP, UK, E51, CH, AR, HK)	
⚠T202	1-437-817-11	TRANSFORMER, POWER (US, CND)	

7-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark
51	4-241-112-01	VOL.DECORATION RING	
52	4-241-113-01	VOL.ROTARY KNOB	
53	4-240-261-01	TUNING SWING KNOB	
54	4-241-110-01	DISPLAY WINDOW (AEP, UK, CH)	
54	4-241-380-01	DISPLAY WINDOW (US, CND, E51, AR, HK)	
55	4-240-240-01	CASS LID WINDOW	
56	4-241-118-01	CASS LID	
57	4-236-901-01	CASS LID BKT	
58	4-236-904-01	CASS LID SPRING	
59	4-236-915-01	MAIN PWB MOUNTING BKT (A)	
60	4-235-777-01	BELT (FR)	
61	3-709-645-01	BELT SR	
62	1-796-228-11	DECK, MECH (TCM) (CRL3439)	
63	4-236-907-01	CASS LID LATCH HOLDER	
64	4-236-905-01	CASS LATCH SPRING	
65	4-236-906-01	CASS LID LATCH	
66	4-236-899-01	DAMPER	
#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 SLIT	

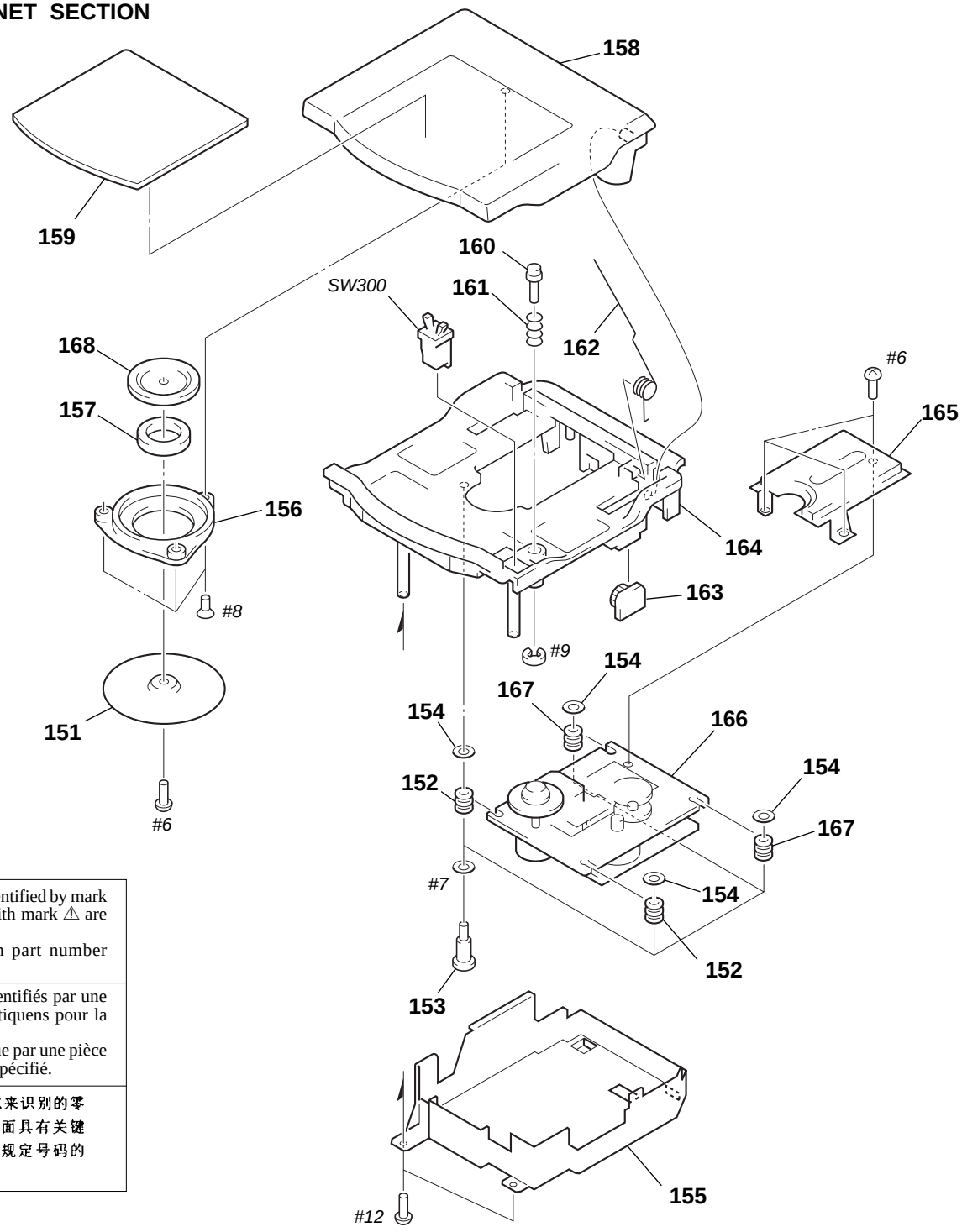
7-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remark
101	4-235-995-01	RUBBER FOOT	
102	4-241-116-01	FRONT PANEL (AEP, UK, E51, CH, AR)	
102	4-241-716-01	FRONT PANEL (US, CND, HK)	
104	A-4729-609-A	HEADPHONE BOARD, COMPLETE	
105	4-235-994-01	PANEL FIXING PLATE	
106	4-241-115-01	RECORD/PAUSE KNOB	
107	4-241-114-01	PLAY/STOP KNOB	
108	4-236-916-01	MAIN PWB MOUNTING BKT (B)	
109	A-4729-811-A	DISPLAY BOARD, COMPLETE (CH)	
109	A-4729-607-A	DISPLAY BOARD, COMPLETE (AEP, UK)	
109	A-4730-006-A	DISPLAY BOARD, COMPLETE (US, CND)	
109	A-4730-016-A	DISPLAY BOARD, COMPLETE (E51, AR)	

Ref. No.	Part No.	Description	Remark
109	A-4730-017-A	DISPLAY BOARD, COMPLETE (HK)	
110	4-240-272-01	FUNCTION KNOB	
111	4-240-269-01	BASS/MENU KNOB	
112	4-240-258-01	TUNING SWING LEVER	
113	4-240-276-01	TUNING KNOB SPRING	
114	4-240-271-01	PRESET UP/DOWN KNOB	
115	4-240-268-01	DISPLAY/POWER KNOB	
116	4-241-291-01	LCD SHIELDING PAPER	
#4	7-685-535-14	SCREW +BTP 2.6X10 TYPE2 N-S	
#10	7-685-854-04	SCREW +BVTT 2X8 (S)	
#11	7-685-135-19	SCREW +P2.6X10 TYPE2 NON-SLIT	

7-4. CD CABINET SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
151	4-235-971-01	PLASTIC COVER	
152	4-236-280-01	RUBBER, VIBRATION PROOF (PINK)	
153	4-235-991-01	PULLEY SCREW	
* 154	3-509-138-00	CLAMP, SPRING	
155	4-240-255-01	CD COVER HOUSING	
156	4-235-948-01	DISC HOLDER BKT	
157	1-471-144-11	MAGNET	
158	4-241-109-01	CD LID (T2)	
159	4-241-108-01	CD LID WINDOW	
160	4-235-970-01	NSX1 PUSH ROD	
161	4-235-990-01	CD EJECT SPRING	
162	4-235-982-01	CD LID SPRING	
163	4-236-899-01	DAMPER	

Ref. No.	Part No.	Description	Remark
164	4-240-244-01	CD TRAY (AEP, UK, E51, CH, AR, HK)	
164	4-241-494-01	CD TRAY (US, CND)	
165	4-235-949-01	PU COVER	
⚠166	1-796-189-11	MECH, CD (CS-21SC-1280)	
167	4-236-281-01	RUBBER, VIBRATION PROOF (ORG)	
168	4-236-860-01	METAL COVER	
SW300	1-692-960-21	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	
#6	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
#7	7-623-916-21	FIBER WASHER 3.3,SMALL	
#8	7-685-233-19	SCREW +KTP 2.6X6 TYPE2NON-SLIT	
#9	7-624-106-04	STOP RING 3.0, TYPE-E	
#12	7-685-646-14	SCREW +BVTP 3X8 TYPE2 SLIT	

SECTION 8
ELECTRICAL PARTS LIST

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AR : Argentina model
  CH : Chinese model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  HK : Hong Kong model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4729-607-A	DISPLAY BOARD, COMPLETE (AEP, UK)			
	A-4729-811-A	DISPLAY BOARD, COMPLETE (CH)			
	A-4730-006-A	DISPLAY BOARD, COMPLETE (US, CND)			
	A-4730-016-A	DISPLAY BOARD, COMPLETE (E51, AR)			
	A-4730-017-A	DISPLAY BOARD, COMPLETE (HK)			
		**********			
	4-240-243-01	LCD LIGHT GUIDE			
	4-240-252-01	REMOTE SENSOR HOLDER			
	4-240-253-01	TIMER LED HOLDER			
	4-240-254-01	LCD BACKLITE HOLDER			
	4-240-277-01	LCD DIFFUSE SHEET			
	4-241-111-01	REC.KNOB LED HOLDER			
	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S			
		< CAPACITOR >			
C306	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C307	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C309	1-126-514-11	ELECT	22uF	20%	10V
C310	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C311	1-115-870-11	ELECT	0.47uF	20%	50V
C312	1-126-382-11	ELECT	100uF	20%	10V
C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C315	1-115-872-11	ELECT	2.2uF	20%	50V (AEP, UK)
C316	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C317	1-126-382-11	ELECT	100uF	20%	10V (AEP, UK)
C318	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (AEP, UK)
C319	1-128-818-11	CERAMIC	560PF	5%	50V (AEP, UK)
C320	1-126-382-11	ELECT	100uF	20%	10V (AEP, UK)
C321	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C322	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (AEP, UK)
C323	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (AEP, UK)
C324	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C325	1-126-934-11	ELECT	220uF	20%	10V
C326	1-126-916-11	ELECT	1000uF	20%	6.3V
C327	1-164-159-11	CERAMIC	0.1uF		50V
C328	1-115-871-11	ELECT	1uF	20%	50V
C332	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C333	1-164-159-11	CERAMIC	0.1uF		50V
C335	1-164-159-11	CERAMIC	0.1uF		50V
C336	1-164-159-11	CERAMIC	0.1uF		50V
C337	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C338	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C339	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C340	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C341	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C342	1-162-288-31	CERAMIC	330PF	10%	50V
C343	1-162-288-31	CERAMIC	330PF	10%	50V
		< LIQUID CRYSTAL DISPLAY >			
CN301	1-804-496-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
D301	8-719-991-33	DIODE 1N4148TP			
D302	8-719-991-33	DIODE 1N4148TP (AEP, UK, E51, HK, AR, CH)			
D303	8-719-991-33	DIODE 1N4148TP (AEP, UK, HK, CH)			
D304	8-719-991-33	DIODE 1N4148TP (US, CND, E51, AR)			
D305	8-719-991-33	DIODE 1N4148TP (AEP, UK, CH)			
D306	8-719-991-33	DIODE 1N4148TP			
D307	8-719-991-33	DIODE 1N4148TP (AEP, UK, CH)			
D308	8-719-991-33	DIODE 1N4148TP			
D309	8-719-991-33	DIODE 1N4148TP			
D310	8-719-991-33	DIODE 1N4148TP			
D311	8-719-991-33	DIODE 1N4148TP (AEP, UK)			
D312	8-719-062-11	LED SEL2215S-CD (TIMER)			
D313	8-719-062-11	LED SEL2215S-CD (●)			
D316	8-719-991-33	DIODE 1N4148TP			
D317	8-719-991-33	DIODE 1N4148TP			
D901	8-719-812-44	LED SEL2910D (LCD BACK LIGHT)			
D902	8-719-812-44	LED SEL2910D (LCD BACK LIGHT)			
D903	8-719-812-44	LED SEL2910D (LCD BACK LIGHT)			
		< IC >			
IC301	6-801-965-01	IC uPD780306GC-A68-8EU			
IC302	8-759-251-04	IC ST24C02AB1			
IC304	8-759-971-11	IC PST529D			
IC305	8-759-557-36	IC BU1924F-E2 (AEP, UK)			

DISPLAY

Ref. No.	Part No.	Description			Remark
		< SHORT >			
J306	1-216-864-11	SHORT CHIP	0 (AEP, UK, CH)		
J340	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L301	1-410-525-11	INDUCTOR	220uH		
		< TRANSISTOR >			
Q301	8-729-281-53	TRANSISTOR	2SC536NP-F		
Q302	8-729-281-53	TRANSISTOR	2SC536NP-F (AEP, UK)		
Q304	8-729-281-53	TRANSISTOR	2SC536NP-F		
Q305	8-729-281-53	TRANSISTOR	2SC536NP-F		
Q306	8-729-281-53	TRANSISTOR	2SC536NP-F		
Q307	8-729-281-53	TRANSISTOR	2SC536NP-F (HK)		
Q308	8-729-173-38	TRANSISTOR	2SA608SP-G		(US, CND, E51, AR)
		< RESISTOR >			
R301	1-216-833-11	METAL CHIP	10K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-073-91	RES-CHIP	10K	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-418-11	CARBON	1.2K	5%	1/4W
R308	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R309	1-216-837-11	METAL CHIP	22K	5%	1/10W
R310	1-216-821-11	METAL CHIP	1K	5%	1/10W
R311	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R312	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R315	1-216-821-11	METAL CHIP	1K	5%	1/10W
R316	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R318	1-249-426-11	CARBON	5.6K	5%	1/4W
R319	1-216-845-11	METAL CHIP	100K	5%	1/10W
R320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R321	1-216-821-11	METAL CHIP	1K	5%	1/10W
R322	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R323	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R324	1-249-409-11	CARBON	220	5%	1/4W
R325	1-216-849-11	METAL CHIP	220K	5%	1/10W
R326	1-216-821-11	METAL CHIP	1K	5%	1/10W
R327	1-216-837-11	METAL CHIP	22K	5%	1/10W
R328	1-216-815-11	METAL CHIP	330	5%	1/10W
R329	1-216-837-11	METAL CHIP	22K	5%	1/10W
R330	1-216-857-11	METAL CHIP	1M	5%	1/10W
R331	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R332	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R334	1-249-417-11	CARBON	1K	5%	1/4W (AEP, UK)
R335	1-249-417-11	CARBON	1K	5%	1/4W
R336	1-216-049-11	RES-CHIP	1K	5%	1/10W
R337	1-249-417-11	CARBON	1K	5%	1/4W
R338	1-247-887-00	CARBON	220K	5%	1/4W
R339	1-216-841-11	METAL CHIP	47K	5%	1/10W
R340	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP, UK)
R344	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP, UK)
R345	1-249-417-11	CARBON	1K	5%	1/4W
R346	1-249-417-11	CARBON	1K	5%	1/4W
R347	1-249-417-11	CARBON	1K	5%	1/4W
R348	1-216-801-11	METAL CHIP	22	5%	1/10W (AEP, UK)
R349	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP, UK)
R350	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP, UK)
R351	1-216-821-11	METAL CHIP	1K	5%	1/10W
R352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R353	1-216-837-11	METAL CHIP	22K	5%	1/10W
R354	1-216-821-11	METAL CHIP	1K	5%	1/10W
R355	1-249-417-11	CARBON	1K	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R360	1-216-821-11	METAL CHIP	1K	5%	1/10W
R361	1-249-417-11	CARBON	1K	5%	1/4W
R363	1-216-821-11	METAL CHIP	1K	5%	1/10W
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W
R365	1-216-845-11	METAL CHIP	100K	5%	1/10W
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W
R368	1-216-821-11	METAL CHIP	1K	5%	1/10W
R369	1-216-049-11	RES-CHIP	1K	5%	1/10W
R370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R372	1-216-821-11	METAL CHIP	1K	5%	1/10W
R373	1-216-837-11	METAL CHIP	22K	5%	1/10W
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W (US, CND, E51, AR)
R375	1-216-841-11	METAL CHIP	47K	5%	1/10W (HK)
R379	1-249-417-11	CARBON	1K	5%	1/4W
R380	1-249-433-11	CARBON	22K	5%	1/4W
R381	1-216-864-11	SHORT CHIP	0		
R382	1-216-849-11	METAL CHIP	220K	5%	1/10W
R384	1-249-429-11	CARBON	10K	5%	1/4W
R385	1-216-864-11	SHORT CHIP	0		
R386	1-216-073-91	RES-CHIP	10K	5%	1/10W
R387	1-216-821-11	METAL CHIP	1K	5%	1/10W
R388	1-216-841-11	METAL CHIP	47K	5%	1/10W
R389	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-249-417-11	CARBON	1K	5%	1/4W
R392	1-249-417-11	CARBON	1K	5%	1/4W
R394	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK)
R395	1-216-864-11	SHORT CHIP	0		
R396	1-249-417-11	CARBON	1K	5%	1/4W
R397	1-249-417-11	CARBON	1K	5%	1/4W
R398	1-249-417-11	CARBON	1K	5%	1/4W
R399	1-249-417-11	CARBON	1K	5%	1/4W
RJ303	1-216-295-00	SHORT CHIP	0		

DISPLAY | HEADPHONE | MAIN

Ref. No.	Part No.	Description		Remark
RJ312	1-216-295-00	SHORT CHIP	0	
RJ319	1-216-295-00	SHORT CHIP	0	
RJ320	1-216-864-11	SHORT CHIP	0	
RJ326	1-216-864-11	SHORT CHIP	0	
RJ351	1-216-864-11	SHORT CHIP	0	
RJ356	1-216-295-00	SHORT CHIP	0	
RJ361	1-216-295-00	SHORT CHIP	0	
RJ362	1-216-295-00	SHORT CHIP	0	
		< SWITCH >		
SW301	1-570-472-11	SWITCH, KEY BOARD (I/⏻)		
SW302	1-570-472-11	SWITCH, KEY BOARD (TUNER/BAND)		
SW303	1-570-472-11	SWITCH, KEY BOARD (TAPE)		
SW304	1-570-472-11	SWITCH, KEY BOARD (CD)		
SW305	1-570-472-11	SWITCH, KEY BOARD (PLAY MODE, RDS/DIR)		
SW306	1-570-472-11	SWITCH, KEY BOARD (■)		
SW307	1-570-472-11	SWITCH, KEY BOARD (❚❚)		
SW308	1-570-472-11	SWITCH, KEY BOARD (◄◄ ►►)		
SW309	1-570-472-11	SWITCH, KEY BOARD (TUNER MEM/ENTER)		
SW310	1-570-472-11	SWITCH, KEY BOARD (PRESET –)		
SW311	1-570-472-11	SWITCH, KEY BOARD (PRESET +)		
SW312	1-570-472-11	SWITCH, KEY BOARD (DISPLAY)		
SW313	1-554-088-00	SWITCH, KEY BOARD (I◄◄ ◄◄, TUNING –)		
SW314	1-554-088-00	SWITCH, KEY BOARD (►► ►►I, TUNING +)		
SW315	1-570-472-11	SWITCH, KEY BOARD (MUSIC MENU)		
SW316	1-570-472-11	SWITCH, KEY BOARD (MEGA BASS)		
SW317	1-570-472-11	SWITCH, KEY BOARD (●)		
		< VIBRATOR/ROTARY ENCODER >		
X301	1-795-436-11	VIBRATOR, CRYSTAL (4.194304MHz)		
X302	6-600-092-01	IC RPM7138-V4		
X303	1-476-916-11	ENCODER (VOLUME)		
X304	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP, UK)		
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	A-4729-609-A	HEADPHONE BOARD, COMPLETE		
		**********		
		< CAPACITOR >		
C584	1-161-494-00	CERAMIC	0.022uF	25V
C585	1-161-494-00	CERAMIC	0.022uF	25V
		< JACK >		
H501	1-815-813-11	JACK (LARGE TYPE)		
		< COIL >		
L501	1-410-525-11	INDUCTOR	220uH	
L502	1-410-525-11	INDUCTOR	220uH	
L503	1-410-324-11	INDUCTOR	4.7uH	
L504	1-410-525-11	INDUCTOR	220uH	
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Ref. No.	Part No.	Description				Remark
	A-4729-608-A	MAIN BOARD, COMPLETE (AEP, UK)				
	A-4729-812-A	MAIN BOARD, COMPLETE (CH)				
	A-4730-007-A	MAIN BOARD, COMPLETE				
						(EXCEPT AEP, UK, CH)
		**********				
		< BAND-PASS FILTER >				
BPF401	1-234-704-11	FILTER, BAND PASS (FM)				
						(EXCEPT AEP, UK, CH)
		< CAPACITOR >				
C101	1-126-956-91	ELECT	0.1uF	20%	50V	
C102	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C401	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C402	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(AEP, UK, CH)
C402	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	
						(EXCEPT AEP, UK, CH)
C403	1-163-220-11	CERAMIC CHIP	3PF	0.25PF	50V	
						(AEP, UK, CH)
C404	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(AEP, UK, CH)
C404	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C405	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C405	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	
						(AEP, UK, CH)
C406	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(AEP, UK, CH)
C406	1-128-551-11	ELECT	22uF	20%	25V	
						(EXCEPT AEP, UK, CH)
C407	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C408	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(AEP, UK, CH)
C408	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C409	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C409	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
						(AEP, UK, CH)
C410	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C410	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
						(AEP, UK, CH)
C411	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
						(EXCEPT AEP, UK, CH)
C412	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V	
						(EXCEPT AEP, UK, CH)
C413	1-126-964-11	ELECT	10uF	20%	50V	
						(AEP, UK, CH)
C413	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(EXCEPT AEP, UK, CH)
C414	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	
						(AEP, UK, CH)
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
						(EXCEPT AEP, UK, CH)
C415	1-126-962-11	ELECT	3.3uF	20%	50V	
						(AEP, UK, CH)
C415	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V	
						(EXCEPT AEP, UK, CH)

Ref. No.	Part No.	Description				Remark
C416	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(AEP, UK, CH)
C416	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C417	1-126-933-11	ELECT	100uF	20%	16V	(AEP, UK, CH)
C417	1-126-959-11	ELECT	0.47uF	20%	50V	(EXCEPT AEP, UK, CH)
C418	1-126-933-11	ELECT	100uF	20%	16V	(AEP, UK, CH)
C418	1-126-960-11	ELECT	1uF	20%	50V	(EXCEPT AEP, UK, CH)
C419	1-126-957-11	ELECT	0.22uF	20%	50V	(EXCEPT AEP, UK, CH)
C419	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	(AEP, UK, CH)
C420	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(EXCEPT AEP, UK, CH)
C420	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	(AEP, UK, CH)
C421	1-163-006-11	CERAMIC CHIP	560PF	10%	50V	(AEP, UK, CH)
C421	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	(EXCEPT AEP, UK, CH)
C422	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP, UK, CH)
C422	1-163-220-11	CERAMIC CHIP	3PF	0.25PF	50V	(EXCEPT AEP, UK, CH)
C423	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	(AEP, UK, CH)
C423	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	(EXCEPT AEP, UK, CH)
C424	1-126-514-11	ELECT	22uF	20%	16V	(AEP, UK, CH)
C425	1-126-962-11	ELECT	3.3uF	20%	50V	(EXCEPT AEP, UK, CH)
C425	1-126-964-11	ELECT	10uF	20%	50V	(AEP, UK, CH)
C426	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(EXCEPT AEP, UK, CH)
C426	1-126-967-11	ELECT	47uF	20%	50V	(AEP, UK, CH)
C427	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(AEP, UK, CH)
C428	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(AEP, UK, CH)
C429	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C429	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	(AEP, UK, CH)
C430	1-126-961-11	ELECT	2.2uF	20%	50V	(EXCEPT AEP, UK, CH)
C431	1-126-961-11	ELECT	2.2uF	20%	50V	(EXCEPT AEP, UK, CH)
C432	1-126-964-11	ELECT	10uF	20%	50V	(AEP, UK)
C432	1-130-471-00	MYLAR	0.001uF	5%	50V	(EXCEPT AEP, UK, CH)
C433	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP, UK, CH)
C433	1-130-471-00	MYLAR	0.001uF	5%	50V	(EXCEPT AEP, UK, CH)
C434	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(EXCEPT AEP, UK, CH)
C434	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP, UK, CH)
C435	1-126-934-11	ELECT	220uF	20%	16V	(EXCEPT AEP, UK, CH)
C435	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP, UK, CH)
C436	1-126-794-11	ELECT	4.7uF	20%	50V	(AEP, UK, CH)
C436	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(EXCEPT AEP, UK, CH)
C437	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(AEP, UK, CH)
C437	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	(EXCEPT AEP, UK, CH)
C438	1-126-514-11	ELECT	22uF	20%	16V	(AEP, UK, CH)
C438	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	(EXCEPT AEP, UK, CH)
C439	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V	(EXCEPT AEP, UK, CH)
C439	1-126-935-11	ELECT	470uF	20%	16V	(AEP, UK, CH)
C440	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(AEP, UK, CH)
C440	1-126-961-11	ELECT	2.2uF	20%	50V	(EXCEPT AEP, UK, CH)
C441	1-126-960-11	ELECT	1uF	20%	50V	(AEP, UK, CH)
C441	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(EXCEPT AEP, UK, CH)
C442	1-115-870-11	ELECT	0.47uF	20%	50V	(AEP, UK, CH)
C442	1-126-933-11	ELECT	100uF	20%	16V	(EXCEPT AEP, UK, CH)
C443	1-126-960-11	ELECT	1uF	20%	50V	(AEP, UK, CH)
C443	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	(EXCEPT AEP, UK, CH)
C444	1-130-483-00	MYLAR	0.01uF	5%	50V	(AEP, UK, CH)
C444	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(EXCEPT AEP, UK, CH)
C445	1-126-933-11	ELECT	100uF	20%	16V	(EXCEPT AEP, UK, CH)
C445	1-130-483-00	MYLAR	0.01uF	5%	50V	(AEP, UK, CH)
C446	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(EXCEPT AEP, UK, CH)
C446	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(AEP, UK)
C447	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(EXCEPT AEP, UK, CH)
C447	1-126-933-11	ELECT	100uF	20%	16V	(AEP, UK)
C448	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(AEP, UK)
C448	1-126-933-11	ELECT	100uF	20%	16V	(EXCEPT AEP, UK, CH)
C449	1-126-933-11	ELECT	100uF	20%	16V	(EXCEPT AEP, UK, CH)

MAIN

Ref. No.	Part No.	Description				Remark
C449	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(AEP, UK, CH)
C450	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(EXCEPT AEP, UK, CH)
C450	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(AEP, UK, CH)
C451	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP, UK, CH)
C451	1-126-967-11	ELECT	47uF	20%	50V	(EXCEPT AEP, UK, CH)
C452	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(EXCEPT AEP, UK, CH)
C452	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	(AEP, UK, CH)
C453	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(EXCEPT AEP, UK, CH)
C453	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	(AEP, UK, CH)
C454	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(AEP, UK, CH)
C454	1-130-481-00	MYLAR	0.0068uF	5%	50V	(EXCEPT AEP, UK, CH)
C455	1-126-933-11	ELECT	100uF	20%	16V	(AEP, UK, CH)
C455	1-130-481-00	MYLAR	0.0068uF	5%	50V	(EXCEPT AEP, UK, CH)
C456	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	(EXCEPT AEP, UK, CH)
C456	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(AEP, UK)
C457	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(AEP, UK, CH)
C458	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	(AEP, UK, CH)
C459	1-126-933-11	ELECT	100uF	20%	16V	(AEP, UK, CH)
C460	1-126-514-11	ELECT	22uF	20%	16V	(AEP, UK, CH)
C460	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(EXCEPT AEP, UK, CH)
C461	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	(AEP, UK, CH)
C501	1-126-960-11	ELECT	1uF	20%	50V	
C502	1-126-960-11	ELECT	1uF	20%	50V	
C503	1-164-159-11	CERAMIC	0.1uF		50V	
C504	1-164-159-11	CERAMIC	0.1uF		50V	
C505	1-164-159-11	CERAMIC	0.1uF		50V	
C506	1-164-159-11	CERAMIC	0.1uF		50V	
C507	1-126-934-11	ELECT	220uF	20%	16V	
C508	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C509	1-104-661-91	ELECT	330uF	20%	16V	
C510	1-164-159-11	CERAMIC	0.1uF		50V	
C511	1-164-159-11	CERAMIC	0.1uF		50V	
C512	1-130-491-00	MYLAR	0.047uF	5%	50V	
C513	1-130-491-00	MYLAR	0.047uF	5%	50V	
C514	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C515	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C516	1-130-487-00	MYLAR	0.022uF	5%	50V	
C517	1-130-487-00	MYLAR	0.022uF	5%	50V	
C518	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C519	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C520	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C521	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C522	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C523	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C524	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C526	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C527	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C528	1-130-489-00	MYLAR	0.033uF	5%	50V	
C529	1-130-489-00	MYLAR	0.033uF	5%	50V	
C530	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C531	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C532	1-126-794-11	ELECT	4.7uF	20%	50V	(AEP, UK, CH)
C532	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C533	1-126-794-11	ELECT	4.7uF	20%	50V	(AEP, UK, CH)
C533	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C534	1-126-794-11	ELECT	4.7uF	20%	50V	(AEP, UK, CH)
C534	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C535	1-126-794-11	ELECT	4.7uF	20%	50V	(AEP, UK, CH)
C535	1-126-963-11	ELECT	4.7uF	20%	50V	(EXCEPT AEP, UK, CH)
C536	1-126-961-11	ELECT	2.2uF	20%	50V	
C537	1-126-961-11	ELECT	2.2uF	20%	50V	
C538	1-126-961-11	ELECT	2.2uF	20%	50V	
C539	1-126-961-11	ELECT	2.2uF	20%	50V	
C540	1-126-959-11	ELECT	0.47uF	20%	50V	
C541	1-126-959-11	ELECT	0.47uF	20%	50V	
C542	1-126-794-11	ELECT	4.7uF	20%	50V	
C544	1-115-870-11	ELECT	0.47uF	20%	50V	
C545	1-115-870-11	CERAMIC CHIP	0.001uF	10%	50V	
C546	1-126-964-11	ELECT	10uF	20%	50V	
C547	1-126-960-11	ELECT	1uF	20%	50V	
C548	1-127-876-21	CERAMIC	0.01uF	10%	50V	
C549	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C550	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C551	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C552	1-126-960-11	ELECT	1uF	20%	50V	
C553	1-126-960-11	ELECT	1uF	20%	50V	
C554	1-104-665-11	ELECT	100uF	20%	25V	
C555	1-104-665-11	ELECT	100uF	20%	25V	
C556	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C557	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C558	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C559	1-128-550-11	ELECT	2200uF	20%	50V	
C560	1-104-665-11	ELECT	100uF	20%	25V	
C561	1-126-942-61	ELECT	1000uF	20%	25V	
C562	1-126-942-61	ELECT	1000uF	20%	25V	
C563	1-130-495-00	MYLAR	0.1uF	5%	50V	
C564	1-130-495-00	MYLAR	0.1uF	5%	50V	
C565	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C566	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C567	1-126-934-11	ELECT	220uF	20%	16V	

Ref. No.	Part No.	Description			Remark
C568	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C569	1-126-794-11	ELECT	4.7uF	20%	50V
					(AEP, UK, CH)
C569	1-126-963-11	ELECT	4.7uF	20%	50V
					(EXCEPT AEP, UK, CH)
C570	1-126-794-11	ELECT	4.7uF	20%	50V
					(AEP, UK, CH)
C570	1-126-963-11	ELECT	4.7uF	20%	50V
					(EXCEPT AEP, UK, CH)
C571	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C572	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C573	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C574	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C575	1-126-933-11	ELECT	100uF	20%	16V
C576	1-126-933-11	ELECT	100uF	20%	16V
C577	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C578	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C579	1-126-934-11	ELECT	220uF	20%	16V
C580	1-126-934-11	ELECT	220uF	20%	16V
C581	1-130-495-00	MYLAR	0.1uF	5%	50V
C582	1-130-495-00	MYLAR	0.1uF	5%	50V
C583	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C586	1-126-934-11	ELECT	220uF	20%	16V
C601	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C602	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C603	1-130-473-00	MYLAR	0.0015uF	5%	50V
C604	1-130-473-00	MYLAR	0.0015uF	5%	50V
C605	1-126-960-11	ELECT	1uF	20%	50V
C606	1-126-960-11	ELECT	1uF	20%	50V
C607	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C608	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C609	1-126-960-11	ELECT	1uF	20%	50V
C610	1-126-960-11	ELECT	1uF	20%	50V
C611	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C612	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C613	1-126-934-11	ELECT	220uF	20%	16V
C614	1-126-934-11	ELECT	220uF	20%	16V
C615	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C616	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C617	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C618	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C619	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C620	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C621	1-130-493-00	MYLAR	0.068uF	5%	50V
C622	1-130-493-00	MYLAR	0.068uF	5%	50V
C623	1-126-794-11	ELECT	4.7uF	20%	50V
					(AEP, UK, CH)
C623	1-126-963-11	ELECT	4.7uF	20%	50V
					(EXCEPT AEP, UK, CH)
C624	1-126-794-11	ELECT	4.7uF	20%	50V
					(AEP, UK, CH)
C624	1-126-963-11	ELECT	4.7uF	20%	50V
					(EXCEPT AEP, UK, CH)
C625	1-130-491-00	MYLAR	0.047uF	5%	50V
C626	1-130-491-00	MYLAR	0.047uF	5%	50V
C627	1-126-956-91	ELECT	0.1uF	20%	50V
C628	1-126-956-91	ELECT	0.1uF	20%	50V
C629	1-126-967-11	ELECT	47uF	20%	50V

Ref. No.	Part No.	Description			Remark
C630	1-126-964-11	ELECT	10uF	20%	50V
C631	1-126-934-11	ELECT	220uF	20%	16V
C632	1-164-159-11	CERAMIC	0.1uF		50V
C633	1-126-960-11	ELECT	1uF	20%	50V
C634	1-126-960-11	ELECT	1uF	20%	50V
C635	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C636	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C637	1-126-964-11	ELECT	10uF	20%	50V
C638	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C639	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C640	1-126-934-11	ELECT	220uF	20%	16V
C641	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C642	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C643	1-130-486-00	MYLAR	0.018uF	10%	50V
C644	1-130-483-00	MYLAR	0.01uF	5%	50V
C645	1-130-471-00	MYLAR	0.001uF	5%	50V
C646	1-130-471-00	MYLAR	0.001uF	5%	50V
C647	1-126-933-11	ELECT	100uF	20%	16V
C648	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C649	1-126-934-11	ELECT	220uF	20%	16V
C650	1-126-933-11	ELECT	100uF	20%	16V
C651	1-126-960-11	ELECT	1uF	20%	50V
C652	1-126-794-11	ELECT	4.7uF	20%	50V
					(AEP, UK, CH)
C652	1-126-963-11	ELECT	4.7uF	20%	50V
					(EXCEPT AEP, UK, CH)
C653	1-115-870-11	ELECT	0.47uF	20%	50V
					(AEP, UK, CH)
C653	1-126-959-11	ELECT	0.47uF	20%	50V
					(EXCEPT AEP, UK, CH)
C654	1-130-483-00	MYLAR	0.01uF	5%	50V
C655	1-130-483-00	MYLAR	0.01uF	5%	50V
C656	1-126-933-11	ELECT	100uF	20%	16V
C657	1-126-934-11	ELECT	220uF	20%	16V
C658	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C659	1-126-934-11	ELECT	220uF	20%	16V
C660	1-126-960-11	ELECT	1uF	20%	50V
C661	1-126-960-11	ELECT	1uF	20%	50V
C662	1-126-961-11	ELECT	2.2uF	20%	50V
C663	1-126-961-11	ELECT	2.2uF	20%	50V
C664	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C670	1-104-661-91	ELECT	330uF	20%	16V
C671	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
					(EXCEPT AEP, UK, CH)
C672	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C801	1-126-933-11	ELECT	100uF	20%	16V
C802	1-126-934-11	ELECT	220uF	20%	16V
C803	1-126-960-11	ELECT	1uF	20%	50V
C804	1-126-934-11	ELECT	220uF	20%	16V
C805	1-126-933-11	ELECT	100uF	20%	16V
C806	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C807	1-126-964-11	ELECT	10uF	20%	50V
C808	1-104-665-11	ELECT	100uF	20%	25V
C810	1-126-964-11	ELECT	10uF	20%	50V
					(AEP, UK, CH)
C811	1-126-514-11	ELECT	22uF	20%	16V
					(AEP, UK, CH)
C812	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
					(AEP, UK, CH)

MAIN

Ref. No.	Part No.	Description	Remark
C813	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	(EXCEPT AEP, UK, CH)
C814	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	(AEP, UK, CH)
C903	1-162-294-31	CERAMIC 0.001uF 10% 50V	(EXCEPT AEP, UK, CH)
		< CERAMIC FILTER >	
CF401	1-795-437-11	FILTER, CERAMIC	
CF402	1-795-437-11	FILTER, CERAMIC	(AEP, UK, CH)
CF403	1-795-437-11	FILTER, CERAMIC	(AEP, UK, CH)
CF404	1-795-397-11	FILTER, CERAMIC	
CF406	1-795-396-11	DISCRIMINATOR, CERAMIC	(EXCEPT AEP, UK, CH)
		< CONNECTOR >	
* CN101	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
* CN302	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
* CN303	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P	
* CN305	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	(EXCEPT AEP, UK, CH)
* CN305	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P	(AEP, UK, CH)
* CN307	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN401	1-694-848-11	TERMINAL BOARD (ANT FM)	(FM ANT 75Ω COAXIAL) (AEP, UK, CH)
CN401	1-815-968-11	CONNECTOR (F TYPE) (FM ANT 75Ω COAXIAL)	(EXCEPT AEP, UK, CH)
CN402	1-778-310-11	PLUG, CONNECTOR 2P	(SPEAKER IMPEDANCE USE 8Ω) (AM ANT)
CN503	1-537-238-11	TERMINAL BOARD	
CN504	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
* CN601	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
		< DIODE >	
D401	8-719-991-33	DIODE 1SS133T-77	
D402	8-719-991-33	DIODE 1SS133T-77	
D403	8-719-800-09	DIODE 1SV101	(EXCEPT AEP, UK, CH)
D403	8-719-991-33	DIODE 1SS133T-77	(AEP, UK, CH)
D404	8-719-800-09	DIODE 1SV101	(EXCEPT AEP, UK, CH)
D404	8-719-991-33	DIODE 1SS133T-77	(AEP, UK, CH)
D405	8-719-085-35	DIODE SVC348T	(AEP, UK, CH)
D405	8-719-991-33	DIODE 1SS133T-77	(EXCEPT AEP, UK, CH)
D406	8-719-991-33	DIODE 1SS133T-77	(EXCEPT AEP, UK, CH)
D407	8-719-085-35	DIODE SVC348T	(EXCEPT AEP, UK, CH)
D501	8-719-991-33	DIODE 1SS133T-77	
D502	8-719-991-33	DIODE 1SS133T-77	
D503	8-719-991-33	DIODE 1SS133T-77	
D505	8-719-991-33	DIODE 1SS133T-77	
D506	8-719-991-33	DIODE 1SS133T-77	
D507	8-719-991-33	DIODE 1SS133T-77	
D508	8-719-991-33	DIODE 1SS133T-77	
D601	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-991-33	DIODE 1SS133T-77	
D604	8-719-991-33	DIODE 1SS133T-77	
D605	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	(AEP, UK, CH)
D804	8-719-991-33	DIODE 1SS133T-77	
D806	8-719-991-33	DIODE 1SS133T-77	
D808	8-719-991-33	DIODE 1SS133T-77	
D904	8-719-991-33	DIODE 1SS133T-77	
D905	8-719-991-33	DIODE 1SS133T-77	
		< COIL >	
L401	1-410-509-11	INDUCTOR 10uH	(AEP, UK, CH)
L401	1-424-880-11	COIL (FM)	(EXCEPT AEP, UK, CH)
L402	1-410-509-11	INDUCTOR 10uH	(AEP, UK, CH)
L402	1-424-879-11	COIL (FM)	(EXCEPT AEP, UK, CH)
L403	1-410-509-11	INDUCTOR 10uH	
L404	1-410-509-11	INDUCTOR 10uH	(AEP, UK, CH)
L405	1-410-509-11	INDUCTOR 10uH	(EXCEPT AEP, UK, CH)
L406	1-410-509-11	INDUCTOR 10uH	(EXCEPT AEP, UK, CH)
L407	1-424-936-11	COIL (AM ANT)	(EXCEPT AEP, UK, CH)
L408	1-424-935-11	COIL (AM OSC)	(EXCEPT AEP, UK, CH)
L412	1-410-509-11	INDUCTOR 10uH	(EXCEPT AEP, UK, CH)
L505	1-424-945-11	INDUCTOR 8uH	(AEP, UK, CH)
L506	1-424-945-11	INDUCTOR 8uH	(AEP, UK, CH)
L601	1-424-946-11	INDUCTOR 47mH	(AEP, UK, CH)
L602	1-424-946-11	INDUCTOR 47mH	(AEP, UK, CH)
L603	1-424-933-11	COIL (BIAS)	
		< TRANSISTOR >	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	(EXCEPT AEP, UK, CH)
Q401	8-729-281-53	TRANSISTOR 2SC536NP-F	(AEP, UK, CH)
Q402	8-729-281-53	TRANSISTOR 2SC536NP-F	(AEP, UK, CH)
Q403	8-729-281-53	TRANSISTOR 2SC536NP-F	(EXCEPT AEP, UK, CH)
Q403	8-729-823-13	TRANSISTOR 2SC2999D-SPA-AC	(AEP, UK, CH)
Q404	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q405	8-729-116-82	TRANSISTOR 2SD1616-L	(EXCEPT AEP, UK, CH)
Q405	8-729-823-13	TRANSISTOR 2SC2999D-SPA-AC	(AEP, UK)
Q406	8-729-173-38	TRANSISTOR 2SA608SP-G	(EXCEPT AEP, UK, CH)
Q406	8-729-281-53	TRANSISTOR 2SC536NP-F	(AEP, UK, CH)
Q407	8-729-281-53	TRANSISTOR 2SC536NP-F	(EXCEPT AEP, UK, CH)
Q501	8-729-905-50	TRANSISTOR DTC343TS-TP	
Q502	8-729-905-50	TRANSISTOR DTC343TS-TP	
Q503	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q504	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q505	8-729-905-50	TRANSISTOR DTC343TS-TP	
Q506	8-729-905-50	TRANSISTOR DTC343TS-TP	
Q601	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q602	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q603	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q604	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q605	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q606	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q607	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q608	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q609	8-729-281-53	TRANSISTOR 2SC536NP-F	
Q610	8-729-281-53	TRANSISTOR 2SC536NP-F	

Ref. No.	Part No.	Description				Remark
Q611	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q612	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q613	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q614	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q615	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q616	8-729-173-38	TRANSISTOR	2SA608SP-G			
Q617	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q618	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q619	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q620	8-729-808-22	TRANSISTOR	2SB926TP-T			
Q621	8-729-029-86	TRANSISTOR	DTC124ES-TP			
Q622	8-729-116-82	TRANSISTOR	2SD1616-L			
Q624	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q625	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q801	8-729-116-82	TRANSISTOR	2SD1616-L			
⚠Q802	8-729-037-08	TRANSISTOR	KTD2058Y			
Q803	8-729-173-38	TRANSISTOR	2SA608SP-G			
Q804	8-729-281-53	TRANSISTOR	2SC536NP-F			
Q805	8-729-438-33	TRANSISTOR	2SC1383-R			
⚠Q808	8-729-116-82	TRANSISTOR	2SD1616-L (AEP, UK, CH)			
		< RESISTOR >				
R101	1-249-417-11	CARBON	1K	5%	1/4W	
R102	1-249-417-11	CARBON	1K	5%	1/4W	
R103	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R104	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R401	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(AEP, UK, CH)
R401	1-249-411-11	CARBON	330	5%	1/4W	(EXCEPT AEP, UK, CH)
R402	1-216-089-91	RES-CHIP	47K	5%	1/10W	(EXCEPT AEP, UK, CH)
R402	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, UK, CH)
R403	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(AEP, UK, CH)
R404	1-216-089-91	RES-CHIP	47K	5%	1/10W	(EXCEPT AEP, UK, CH)
R404	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP, UK, CH)
R405	1-216-001-00	METAL CHIP	10	5%	1/10W	(EXCEPT AEP, UK, CH)
R405	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(AEP, UK, CH)
R406	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	(EXCEPT AEP, UK, CH)
R406	1-249-393-11	CARBON	10	5%	1/4W	(AEP, UK, CH)
R407	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	(AEP, UK, CH)
R408	1-216-049-11	RES-CHIP	1K	5%	1/10W	(AEP, UK, CH)
R408	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	(EXCEPT AEP, UK, CH)
R409	1-216-089-91	RES-CHIP	47K	5%	1/10W	(AEP, UK, CH)
R409	1-249-399-11	CARBON	33	5%	1/4W	(EXCEPT AEP, UK, CH)
R410	1-216-089-91	RES-CHIP	47K	5%	1/10W	(AEP, UK, CH)
R410	1-216-101-00	METAL CHIP	150K	5%	1/10W	(EXCEPT AEP, UK, CH)
R411	1-216-001-00	METAL CHIP	10	5%	1/10W	(AEP, UK, CH)
R411	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	(EXCEPT AEP, UK, CH)
R412	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	(EXCEPT AEP, UK, CH)
R412	1-216-097-11	RES-CHIP	100K	5%	1/10W	(AEP, UK, CH)
R413	1-216-025-11	RES-CHIP	100	5%	1/10W	(AEP, UK, CH)
R413	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	(EXCEPT AEP, UK, CH)
R414	1-216-097-11	RES-CHIP	100K	5%	1/10W	(EXCEPT AEP, UK, CH)
R414	1-216-099-00	METAL CHIP	120K	5%	1/10W	(AEP, UK, CH)
R415	1-216-037-00	METAL CHIP	330	5%	1/10W	(AEP, UK, CH)
R415	1-216-089-91	RES-CHIP	47K	5%	1/10W	(EXCEPT AEP, UK, CH)
R416	1-216-037-00	METAL CHIP	330	5%	1/10W	(AEP, UK, CH)
R417	1-216-041-00	METAL CHIP	470	5%	1/10W	(AEP, UK, CH)
R417	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(EXCEPT AEP, UK, CH)
R418	1-216-077-00	RES-CHIP	15K	5%	1/10W	(AEP, UK, CH)
R418	1-216-085-91	RES-CHIP	33K	5%	1/10W	(EXCEPT AEP, UK, CH)
R419	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	(AEP, UK, CH)
R419	1-216-097-11	RES-CHIP	100K	5%	1/10W	(EXCEPT AEP, UK, CH)
R420	1-216-029-00	METAL CHIP	150	5%	1/10W	(AEP, UK, CH)
R420	1-249-402-11	CARBON	56	5%	1/4W	(EXCEPT AEP, UK, CH)
R421	1-216-017-00	RES-CHIP	47	5%	1/10W	(AEP, UK, CH)
R421	1-216-073-91	RES-CHIP	10K	5%	1/10W	(EXCEPT AEP, UK, CH)
R422	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	(AEP, UK, CH)
R423	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	(AEP, UK, CH)
R424	1-216-085-91	RES-CHIP	33K	5%	1/10W	(EXCEPT AEP, UK, CH)
R424	1-216-089-91	RES-CHIP	47K	5%	1/10W	(AEP, UK, CH)
R425	1-216-089-91	RES-CHIP	47K	5%	1/10W	(AEP, UK, CH)
R425	1-216-097-11	RES-CHIP	100K	5%	1/10W	(EXCEPT AEP, UK, CH)
R426	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	(AEP, UK, CH)
R426	1-249-429-11	CARBON	10K	5%	1/4W	(EXCEPT AEP, UK, CH)
R427	1-216-073-91	RES-CHIP	10K	5%	1/10W	(EXCEPT AEP, UK, CH)

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MAIN

Ref. No.	Part No.	Description			Remark
R427	1-216-089-91	RES-CHIP	47K	5%	1/10W (AEP, UK, CH)
R428	1-216-073-91	RES-CHIP	10K	5%	1/10W (EXCEPT AEP, UK, CH)
R428	1-249-401-11	CARBON	47	5%	1/4W (AEP, UK, CH)
R429	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R430	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R431	1-216-059-00	METAL CHIP	2.7K	5%	1/10W (AEP, UK, CH)
R432	1-216-059-00	METAL CHIP	2.7K	5%	1/10W (AEP, UK, CH)
R432	1-249-426-11	CARBON	5.6K	5%	1/4W (EXCEPT AEP, UK, CH)
R433	1-216-033-00	METAL CHIP	220	5%	1/10W (EXCEPT AEP, UK, CH)
R434	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (EXCEPT AEP, UK, CH)
R434	1-249-417-11	CARBON	1K	5%	1/4W (AEP, UK)
R435	1-216-061-00	RES-CHIP	3.3K	5%	1/10W (EXCEPT AEP, UK, CH)
R435	1-216-063-00	RES-CHIP	3.9K	5%	1/10W (AEP, UK, CH)
R436	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP, UK, CH)
R436	1-216-063-00	RES-CHIP	3.9K	5%	1/10W (AEP, UK, CH)
R437	1-249-426-11	CARBON	5.6K	5%	1/4W (AEP, UK, CH)
R438	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (EXCEPT AEP, UK, CH)
R438	1-249-426-11	CARBON	5.6K	5%	1/4W (AEP, UK, CH)
R439	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (EXCEPT AEP, UK, CH)
R439	1-216-113-00	METAL CHIP	470K	5%	1/10W (AEP, UK)
R440	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (AEP, UK)
R440	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT AEP, UK, CH)
R441	1-216-109-00	METAL CHIP	330K	5%	1/10W (AEP, UK)
R441	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT AEP, UK, CH)
R442	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP, UK, CH)
R442	1-216-061-00	RES-CHIP	3.3K	5%	1/10W (AEP, UK)
R443	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP, UK)
R443	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT AEP, UK, CH)
R444	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (EXCEPT AEP, UK, CH)
R444	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R445	1-216-073-91	RES-CHIP	10K	5%	1/10W (EXCEPT AEP, UK, CH)
R445	1-249-429-11	CARBON	10K	5%	1/4W (AEP, UK, CH)
R446	1-216-033-00	METAL CHIP	220	5%	1/10W (EXCEPT AEP, UK, CH)
R446	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R447	1-216-049-11	RES-CHIP	1K	5%	1/10W
R448	1-216-049-11	RES-CHIP	1K	5%	1/10W
R449	1-216-097-11	RES-CHIP	100K	5%	1/10W (EXCEPT AEP, UK, CH)
R449	1-249-409-11	CARBON	220	5%	1/4W (AEP, UK, CH)
R450	1-216-049-11	RES-CHIP	1K	5%	1/10W
R451	1-216-073-91	RES-CHIP	10K	5%	1/10W (EXCEPT AEP, UK, CH)
R451	1-249-437-11	CARBON	47K	5%	1/4W (AEP, UK, CH)
R452	1-216-073-91	RES-CHIP	10K	5%	1/10W
R453	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP, UK, CH)
R454	1-216-049-11	RES-CHIP	1K	5%	1/10W (AEP, UK, CH)
R457	1-216-049-11	RES-CHIP	1K	5%	1/10W (AEP, UK, CH)
R458	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (AEP, UK, CH)
R459	1-216-065-00	RES-CHIP	4.7K	5%	1/10W (AEP, UK, CH)
R460	1-216-089-91	RES-CHIP	47K	5%	1/10W (AEP, UK, CH)
R501	1-216-049-11	RES-CHIP	1K	5%	1/10W
R502	1-216-049-11	RES-CHIP	1K	5%	1/10W
R503	1-249-417-11	CARBON	1K	5%	1/4W
R504	1-216-073-91	RES-CHIP	10K	5%	1/10W
R505	1-216-073-91	RES-CHIP	10K	5%	1/10W
R506	1-247-807-31	CARBON	100	5%	1/4W
R507	1-249-425-11	CARBON	4.7K	5%	1/4W
R508	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R509	1-216-085-91	RES-CHIP	33K	5%	1/10W
R510	1-216-085-91	RES-CHIP	33K	5%	1/10W
R511	1-216-081-00	METAL CHIP	22K	5%	1/10W
R512	1-216-081-00	METAL CHIP	22K	5%	1/10W
R513	1-216-095-00	METAL CHIP	82K	5%	1/10W
R514	1-216-095-00	METAL CHIP	82K	5%	1/10W
R515	1-216-089-91	RES-CHIP	47K	5%	1/10W
R516	1-216-089-91	RES-CHIP	47K	5%	1/10W
R517	1-216-073-91	RES-CHIP	10K	5%	1/10W
R518	1-216-073-91	RES-CHIP	10K	5%	1/10W
R519	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R520	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R521	1-216-085-91	RES-CHIP	33K	5%	1/10W
R522	1-216-085-91	RES-CHIP	33K	5%	1/10W
R523	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R524	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R525	1-216-073-91	RES-CHIP	10K	5%	1/10W
R526	1-216-073-91	RES-CHIP	10K	5%	1/10W
R527	1-216-085-91	RES-CHIP	33K	5%	1/10W
R528	1-216-085-91	RES-CHIP	33K	5%	1/10W
R529	1-216-095-00	METAL CHIP	82K	5%	1/10W
R530	1-216-095-00	METAL CHIP	82K	5%	1/10W

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Ref. No.	Part No.	Description			Remark
R531	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R532	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R533	1-216-049-11	RES-CHIP	1K	5%	1/10W
R534	1-216-049-11	RES-CHIP	1K	5%	1/10W
R535	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R536	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R537	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R538	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R539	1-216-073-91	RES-CHIP	10K	5%	1/10W
R540	1-216-073-91	RES-CHIP	10K	5%	1/10W
R541	1-216-097-11	RES-CHIP	100K	5%	1/10W
R542	1-216-097-11	RES-CHIP	100K	5%	1/10W
R543	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R544	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R545	1-216-097-11	RES-CHIP	100K	5%	1/10W
R546	1-216-061-00	RES-CHIP	3.3K	5%	1/10W (EXCEPT AEP, UK, CH)
R546	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R548	1-216-119-00	METAL CHIP	820K	5%	1/10W (EXCEPT AEP, UK, CH)
R548	1-218-917-11	METAL CHIP	820K	0.5%	1/10W (AEP, UK, CH)
R549	1-249-421-11	CARBON	2.2K	5%	1/4W
R550	1-249-426-11	CARBON	5.6K	5%	1/4W
R551	1-216-089-91	RES-CHIP	47K	5%	1/10W (AEP, UK, CH)
R551	1-216-097-11	RES-CHIP	100K	5%	1/10W (EXCEPT AEP, UK, CH)
R552	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (EXCEPT AEP, UK, CH)
R552	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R553	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (EXCEPT AEP, UK, CH)
R553	1-216-073-91	RES-CHIP	10K	5%	1/10W (AEP, UK, CH)
R554	1-216-073-91	RES-CHIP	10K	5%	1/10W (EXCEPT AEP, UK, CH)
R554	1-216-077-00	RES-CHIP	15K	5%	1/10W (AEP, UK, CH)
R555	1-216-073-91	RES-CHIP	10K	5%	1/10W (EXCEPT AEP, UK, CH)
R555	1-216-077-00	RES-CHIP	15K	5%	1/10W (AEP, UK, CH)
R556	1-216-085-91	RES-CHIP	33K	5%	1/10W (AEP, UK, CH)
R556	1-216-089-91	RES-CHIP	47K	5%	1/10W (EXCEPT AEP, UK, CH)
R557	1-216-085-91	RES-CHIP	33K	5%	1/10W (AEP, UK, CH)
R557	1-216-089-91	RES-CHIP	47K	5%	1/10W (EXCEPT AEP, UK, CH)
R558	1-249-389-11	CARBON	4.7	5%	1/4W
R559	1-249-389-11	CARBON	4.7	5%	1/4W
R560	1-216-073-91	RES-CHIP	10K	5%	1/10W
R561	1-216-073-91	RES-CHIP	10K	5%	1/10W
R562	1-216-099-00	METAL CHIP	120K	5%	1/10W
R563	1-216-099-00	METAL CHIP	120K	5%	1/10W
R564	1-216-089-91	RES-CHIP	47K	5%	1/10W
R565	1-216-089-91	RES-CHIP	47K	5%	1/10W
R566	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R567	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R568	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R569	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R570	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R571	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R572	1-216-073-91	RES-CHIP	10K	5%	1/10W
R573	1-216-073-91	RES-CHIP	10K	5%	1/10W
R574	1-247-807-31	CARBON	100	5%	1/4W
R575	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R576	1-249-402-11	CARBON	56	5%	1/4W
R577	1-249-402-11	CARBON	56	5%	1/4W
R578	1-216-049-11	RES-CHIP	1K	5%	1/10W
R579	1-216-049-11	RES-CHIP	1K	5%	1/10W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-409-11	CARBON	220	5%	1/4W
R603	1-216-089-91	RES-CHIP	47K	5%	1/10W
R604	1-216-089-91	RES-CHIP	47K	5%	1/10W
R605	1-216-079-00	METAL CHIP	18K	5%	1/10W
R606	1-216-079-00	METAL CHIP	18K	5%	1/10W
R607	1-216-085-91	RES-CHIP	33K	5%	1/10W
R608	1-249-435-11	CARBON	33K	5%	1/4W
R609	1-216-049-11	RES-CHIP	1K	5%	1/10W
R610	1-216-049-11	RES-CHIP	1K	5%	1/10W
R611	1-249-396-11	CARBON	18	5%	1/4W
R612	1-249-396-11	CARBON	18	5%	1/4W
R613	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R614	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R615	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R616	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R617	1-216-077-00	RES-CHIP	15K	5%	1/10W
R618	1-216-077-00	RES-CHIP	15K	5%	1/10W
R619	1-216-085-91	RES-CHIP	33K	5%	1/10W
R620	1-216-085-91	RES-CHIP	33K	5%	1/10W
R621	1-216-085-91	RES-CHIP	33K	5%	1/10W
R622	1-216-049-11	RES-CHIP	1K	5%	1/10W
R623	1-216-077-00	RES-CHIP	15K	5%	1/10W
R624	1-216-077-00	RES-CHIP	15K	5%	1/10W
R625	1-216-073-91	RES-CHIP	10K	5%	1/10W
R626	1-216-025-11	RES-CHIP	100	5%	1/10W
R627	1-216-085-91	RES-CHIP	33K	5%	1/10W
R628	1-249-425-11	CARBON	4.7K	5%	1/4W
R629	1-249-417-11	CARBON	1K	5%	1/4W
R630	1-249-409-11	CARBON	220	5%	1/4W
R631	1-216-095-00	METAL CHIP	82K	5%	1/10W
R632	1-216-095-00	METAL CHIP	82K	5%	1/10W
R633	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP, UK, CH)
R633	1-216-819-11	METAL CHIP	680	5%	1/10W (AEP, UK, CH)
R634	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP, UK, CH)
R634	1-216-819-11	METAL CHIP	680	5%	1/10W (AEP, UK, CH)
R635	1-216-105-00	RES-CHIP	220K	5%	1/10W
R636	1-216-105-00	RES-CHIP	220K	5%	1/10W
R637	1-216-073-91	RES-CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R638	1-216-073-91	RES-CHIP	10K	5%	1/10W
R639	1-216-089-91	RES-CHIP	47K	5%	1/10W
R640	1-216-117-00	METAL CHIP	680K	5%	1/10W
R641	1-216-089-91	RES-CHIP	47K	5%	1/10W
R642	1-216-089-91	RES-CHIP	47K	5%	1/10W
R643	1-216-089-91	RES-CHIP	47K	5%	1/10W
R644	1-216-089-91	RES-CHIP	47K	5%	1/10W
R645	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R646	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R647	1-216-073-91	RES-CHIP	10K	5%	1/10W
R648	1-216-073-91	RES-CHIP	10K	5%	1/10W
R649	1-216-073-91	RES-CHIP	10K	5%	1/10W
R650	1-216-073-91	RES-CHIP	10K	5%	1/10W
R651	1-216-077-00	RES-CHIP	15K	5%	1/10W
R652	1-216-097-11	RES-CHIP	100K	5%	1/10W
R653	1-216-097-11	RES-CHIP	100K	5%	1/10W
R654	1-216-049-11	RES-CHIP	1K	5%	1/10W
R655	1-216-097-11	RES-CHIP	100K	5%	1/10W
R656	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R657	1-216-089-91	RES-CHIP	47K	5%	1/10W
R659	1-216-081-00	METAL CHIP	22K	5%	1/10W
R660	1-216-097-11	RES-CHIP	100K	5%	1/10W
R661	1-216-081-00	METAL CHIP	22K	5%	1/10W
R662	1-216-081-00	METAL CHIP	22K	5%	1/10W
R663	1-216-081-00	METAL CHIP	22K	5%	1/10W
R664	1-216-081-00	METAL CHIP	22K	5%	1/10W
R665	1-216-081-00	METAL CHIP	22K	5%	1/10W
R666	1-216-081-00	METAL CHIP	22K	5%	1/10W
R667	1-216-081-00	METAL CHIP	22K	5%	1/10W
R671	1-216-085-91	RES-CHIP	33K	5%	1/10W
R672	1-216-041-00	METAL CHIP	470	5%	1/10W
R673	1-249-411-11	CARBON	330	5%	1/4W
R674	1-249-421-11	CARBON	2.2K	5%	1/4W
R675	1-249-413-11	CARBON	470	5%	1/4W
R676	1-216-117-00	METAL CHIP	680K	5%	1/10W
R677	1-216-117-00	METAL CHIP	680K	5%	1/10W
R678	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R679	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R680	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R681	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R682	1-216-099-00	METAL CHIP	120K	5%	1/10W
R683	1-216-099-00	METAL CHIP	120K	5%	1/10W
R684	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK, CH)
R684	1-216-819-11	METAL CHIP	680	5%	1/10W (EXCEPT AEP, UK, CH)
R685	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK, CH)
R685	1-216-819-11	METAL CHIP	680	5%	1/10W (EXCEPT AEP, UK, CH)
R686	1-216-083-00	METAL CHIP	27K	5%	1/10W
R687	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R688	1-216-009-00	RES-CHIP	22	5%	1/10W
R689	1-216-073-91	RES-CHIP	10K	5%	1/10W
R690	1-216-097-11	RES-CHIP	100K	5%	1/10W
R691	1-216-089-91	RES-CHIP	47K	5%	1/10W
R801	1-249-409-11	CARBON	220	5%	1/4W
R802	1-249-416-11	CARBON	820	5%	1/4W

Ref. No.	Part No.	Description			Remark
R803	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-216-073-91	RES-CHIP	10K	5%	1/10W
R806	1-216-806-11	RES-CHIP	56	5%	1/10W (AEP, UK, CH)
R806	1-249-402-11	CARBON	56	5%	1/4W (EXCEPT AEP, UK, CH)
R807	1-249-409-11	CARBON	220	5%	1/4W
R808	1-216-083-00	METAL CHIP	27K	5%	1/10W
R809	1-216-049-11	RES-CHIP	1K	5%	1/10W
R810	1-216-097-11	RES-CHIP	100K	5%	1/10W
R811	1-216-073-91	RES-CHIP	10K	5%	1/10W
R812	1-216-097-11	RES-CHIP	100K	5%	1/10W
R813	1-249-413-11	CARBON	470	5%	1/4W
R818	1-216-073-91	RES-CHIP	10K	5%	1/10W
R819	1-216-049-11	RES-CHIP	1K	5%	1/10W
R820	1-216-097-11	RES-CHIP	100K	5%	1/10W
R821	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, CH)
R822	1-249-409-11	CARBON	220	5%	1/4W (AEP, UK, CH)
RJ1	1-216-295-00	SHORT CHIP	0 (EXCEPT AEP, UK, CH)		
		< SWITCH >			
SW501	1-786-229-11	SWITCH, SLIDE (EXCEPT AEP, UK, CH)			
		< COIL >			
T401	1-424-876-11	COIL (AM) (EXCEPT AEP, UK, CH)			
T401	1-424-936-11	COIL (AM ANT) (AEP, UK, CH)			
T402	1-424-935-11	COIL (AM OSC) (AEP, UK, CH)			
T404	1-424-939-11	COIL (FILTER) (AEP, UK, CH)			
T406	1-424-934-11	COIL (AM IFT) (AEP, UK, CH)			
T407	1-424-937-11	COIL (FM DTC) (AEP, UK, CH)			
		< VARIABLE CAPACITOR >			
TC401	1-141-304-21	CAP, TRIMMER (EXCEPT AEP, UK, CH)			
TC401	1-141-411-11	CAP, ADJ (AEP, UK, CH)			
TC402	1-141-304-21	CAP, TRIMMER (EXCEPT AEP, UK, CH)			
		< IC >			
U401	6-700-580-01	IC LA1823 (EXCEPT AEP, UK, CH)			
U402	8-759-584-70	IC LC72131 (EXCEPT AEP, UK, CH)			
U402	8-759-656-00	IC LA1837L (AEP, UK, CH)			
U403	8-759-346-57	IC LC72131M-TL-M (AEP, UK, CH)			
U501	8-759-473-59	IC LC75392			
⚠U502	6-700-957-01	IC LA4282			
U503	8-759-576-76	IC TDA2822D013TR			
U601	8-759-079-42	IC UPC1330HA-NA			
U602	6-700-579-01	IC AN7312			
U603	8-759-933-50	IC BA335			
⚠U801	8-759-701-59	IC NJM7809FA			
		< VIBRATOR >			
X401	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remark
		< DIODE >			
Z401	8-719-109-89	DIODE MTZJ-T-72-5.6B			(EXCEPT AEP, UK, CH)
Z801	8-719-109-93	DIODE MTZJ-T-72-6.2B			
⚠Z802	8-719-929-15	DIODE MTZJ-T-72-9.1B			
Z803	8-719-110-31	DIODE MTZJ-T-72-12B			
Z804	8-719-110-36	DIODE MTZJ-T-72-13B (AEP, UK, CH)			
**********					
	A-4729-610-A	POWER BOARD, COMPLETE			(EXCEPT US, CND)
	A-4730-008-A	POWER BOARD, COMPLETE (US, CND)			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C201	1-126-968-11	ELECT	100uF	20%	50V
C202	1-128-551-11	ELECT	22uF	20%	25V
C204	1-126-963-11	ELECT	4.7uF	20%	50V
⚠C206	1-102-129-00	CERAMIC	10000PF	10%	50V
⚠C208	1-102-129-00	CERAMIC	10000PF	10%	50V
⚠C209	1-102-129-00	CERAMIC	10000PF	10%	50V
⚠C210	1-117-698-11	CERAMIC	680PF	10%	250V
C211	1-102-129-00	CERAMIC	10000PF	10%	50V
C212	1-102-129-00	CERAMIC	10000PF	10%	50V
C213	1-102-129-00	CERAMIC	10000PF	10%	50V
C215	1-126-935-11	ELECT	470uF	20%	16V
⚠C218	1-102-129-00	CERAMIC	10000PF	10%	50V
C226	1-126-943-11	ELECT	2200uF	20%	25V
C241	1-102-129-00	CERAMIC	10000PF	10%	50V
C243	1-126-960-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
* CN505	1-506-709-11	PLUG, CONNECTOR (2.5MM) 7P			
		< DIODE >			
⚠D201	8-719-077-63	DIODE 1N5402			
⚠D202	8-719-077-63	DIODE 1N5402			
⚠D203	8-719-077-63	DIODE 1N5402			
⚠D204	8-719-077-63	DIODE 1N5402			
⚠D205	8-719-200-02	DIODE 1N4001			
⚠D206	8-719-200-02	DIODE 1N4001			
⚠D207	8-719-200-02	DIODE 1N4001			
⚠D208	8-719-200-02	DIODE 1N4001			
D212	8-719-991-33	DIODE 1N4148TP			
D213	8-719-991-33	DIODE 1N4148TP			
D215	8-719-200-02	DIODE 1N4001			
D216	8-719-200-02	DIODE 1N4001			
D217	8-719-200-02	DIODE 1N4001			
D218	8-719-200-02	DIODE 1N4001			
D221	8-719-200-02	DIODE 1N4001			
		< COIL >			
⚠L201	1-424-944-11	INDUCTOR	400uH (EXCEPT US, CND)		
L202	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
⚠Q205	8-729-173-38	TRANSISTOR	2SA608SP-G		
Q206	8-729-281-53	TRANSISTOR	2SC536NP-F		
		< RESISTOR >			
R201	1-249-408-11	CARBON	180	5%	1/4W
R202	1-249-424-11	CARBON	3.9K	5%	1/4W
R204	1-249-434-11	CARBON	27K	5%	1/4W
R218	1-249-437-11	CARBON	47K	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R221	1-249-437-11	CARBON	47K	5%	1/4W
⚠R222	1-249-400-11	CARBON	39	5%	1/4W (US, CND)
⚠R222	1-249-393-11	CARBON	10	5%	1/4W (EXCEPT US, CND)
R223	1-249-437-11	CARBON	47K	5%	1/4W
R225	1-219-237-91	SOLID	3.3M	20%	1/2W (US, CND)
		< ROTARY ENCODER >			
⚠RE201	1-755-448-11	RELAY (US, CND)			
⚠RE201	1-755-446-11	RELAY (EXCEPT US, CND)			
		< TRANSFORMER >			
⚠T202	1-437-817-11	TRANSFORMER, POWER (US, CND)			
⚠T202	1-437-815-11	TRANSFORMER, POWER (EXCEPT US, CND)			
		< DIODE >			
Z201	8-719-109-97	DIODE MTZJ-T-72-6.8B			
Z202	8-719-109-93	DIODE MTZJ-T-72-6.2B			
**********					
		MISCELLANEOUS			
		**********			
⚠4	1-555-750-00	CORD, POWER (AEP)			
⚠4	1-696-535-11	CORD, POWER (UK)			
⚠4	1-782-464-21	CORD, POWER (CH)			
62	1-796-228-11	DECK, MECH (TCM) (CRL3439)			
157	1-471-144-11	MAGNET			
⚠166	1-796-189-11	MECH, CD (CS-21SC-1280)			
⚠F201	1-533-296-11	FUSE, GLASS CYLINDRICAL (DIA.5) (US, CND)			
⚠F202	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (US, CND)			
⚠F202	1-533-468-11	FUSE, GLASS TUBE (DIA.5) (T2AL/250V)			(AEP, UK, E51, CH, AR, HK)
SW300	1-692-960-21	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)			
⚠T201	1-437-513-11	TRANSFORMER, POWER			
⚠T202	1-437-815-11	TRANSFORMER, POWER			(AEP, UK, E51, CH, AR, HK)
⚠T202	1-437-817-11	TRANSFORMER, POWER (US, CND)			
**********					
		ACCESSORIES			
		**********			
⚠	1-569-008-21	ADAPTOR, CONVERSION (E51)			
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)			

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SS-CEP505

SERVICE MANUAL

Ver 1.0 2002.03

US Model
Canadian Model
AEP Model
UK Model
E Model
Chinese Model

- SS-CEP505 is the speaker system in CMT-EP505.

SPECIFICATIONS

Speaker system	Bass-reflex type
Speaker units	Full range 10 cm, cone type
Nominal impedance	8 Ω
Dimensions (w/h/d)	Approx. 145 × 238 × 165 mm
Mass	Approx. 1.5 kg

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
A-4330-848-A	SPEAKER UNIT	

SPEAKER SYSTEM

9-873-950-01
2002C0500-1
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REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.03	New